

DO NOT REMOVE
Send to Applicant

OY 1320 TAAAAAAAAAAAAAAAAAAAAA 1346
DB 1383 TGAATTGTGAAAAAAAAAAAAAAAAA 1409
RESULT 210
AAZ65261
ID AAZ65261 standard; DNA; 1447 BP.
AC AAZ65261;
XX
DT 23-MAR-2000 (first entry)
XX
DB Human secreted protein gene 12.
KW Human; secreted protein; cancer; tumour; developmental abnormality;
KW foetal deficiency; blood disorder; immune system disorder; inflammation;
KW autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
KW schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder;
KW atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;
KW digestive disorder; endocrine disorder; infection; AIDS; leukaemia;
KW therapy; ds.
XX
OS Homo sapiens.
XX
PN WO958660-A1.
XX
PD 18-NOV-1999.
XX
PF 06-MAY-1999; 99WO-US009847.
XX
PR 12-MAY-1998; 98US-0085093P.
PR 12-MAY-1998; 98US-0085094P.
PR 12-MAY-1998; 98US-0085105P.
PR 12-MAY-1998; 98US-0085180P.
PR 18-MAY-1998; 98US-0085906P.
PR 18-MAY-1998; 98US-0085920P.
PR 18-MAY-1998; 98US-0085921P.
PR 18-MAY-1998; 98US-0085922P.
PR 18-MAY-1998; 98US-0085923P.
PR 18-MAY-1998; 98US-0085924P.
PR 18-MAY-1998; 98US-0085925P.
PR 18-MAY-1998; 98US-0085927P.
PR 18-MAY-1998; 98US-0085928P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Florence K, Ni J, Rosen CA, Carter KC, Moore PA;
PI Olsen HS, Shi Y, Young PE, Wei F, Brewer LA, Soppet DR, Lafleur DW;
PI Endress GA, Edner R;
XX
DR MPI; 2000-062296/05.
DR P-PSDB; AAY76135.
XX
PT New isolated human genes and the secreted polypeptides they encode,
PT useful for diagnosis and treatment of e.g. cancers, neurological
PT disorders, immune diseases, inflammation or blood disorders;
XX
PS Claim 1; Page 303; 475pp; English.
XX
CC AAZ65250 to AAZ65350 represent 97 isolated human secreted protein genes.
CC AAY76124 to AAY76223 represent the secreted proteins encoded by the 97
CC human genes. The genes and their corresponding secreted polypeptides are
CC useful for preventing, treating or ameliorating medical conditions, e.g.
CC by protein or gene therapy. Also pathological conditions can be diagnosed
CC by determining the amount of the new polypeptides in a sample or by
CC determining the presence of mutations in the new genes. Specific uses are
CC described for each of the 97 genes, based on which tissues they are most
CC highly expressed in, and include developing products for the diagnosis or
CC treatment of cancer, tumours, developmental abnormalities and foetal
CC deficiencies, blood disorders, diseases of the immune system, autoimmune
CC diseases, inflammation, allergies, Alzheimer's and cognitive disorders,
CC schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders,

CC atherosclerosis, diabetes, cardiovascular disorders, kidney disorders,
CC digestive/endocrine disorders, infections and AIDS. The polypeptides are
CC also useful for identifying their binding partners. The sequences shown
CC in AAY76224 to AAY76424 represent fragments of the secreted proteins

Sequence 1447 BP; 488 A; 262 C; 256 G; 439 T; 0 U; 2 Other;

| | | | | |
|----------------------------|--------|---------------------|-----------|--------------|
| Query Match | 98.4% | Score 1324.6; | DB 3; | Length 1447; |
| Best Local Similarity | 99.3%; | Pred. No. 3.5e-258; | | |
| Matches 1338; Conservative | 2; | Mismatches 6; | Indels 1; | Gaps 1. |

| | | | |
|----|-----|---|-----|
| OY | 1 | GAAAGAAATGTTGTGGCTGCTCTTTTTCGTGTGACTGCCATTCATGTGTGAAGCTGTGCAA | 60 |
| DB | 71 | GAAAGAAATGTTGTGGCTGCTCTTTTTCGTGTGACTGCCATTCATGTGTGAAGCTGTGCAA | 130 |
| OY | 61 | CCAGGTGCAGAAAAATGCTTTTAAAGTCAGACTTAGTATCAGAACAGCTCTGGAGATAAA | 120 |
| DB | 131 | CCAGGTGCAGAAAAATGCTTTTAAAGTCAGACTTAGTATCAGAACAGCTCTGGAGATAAA | 190 |
| OY | 121 | GCATATGCCCTGGGATACCAATGAAGATACCTCTTCAAGCGATGGTAGCTTCTCCATG | 180 |
| DB | 191 | GCATATGCCCTGGGATACCAATGAAGATACCTCTTCAAGCGATGGTAGCTTCTCCATG | 250 |
| OY | 181 | AGAAAGTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTTACTTTGCATGTAAAC | 240 |
| DB | 251 | AGAAAGTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTTACTTTGCATGTAAAC | 310 |
| OY | 241 | CAGAGGTATCATCTGTGTTGTGTACAGACCCCTCAAAAAATCACACCTTCTGCT | 300 |
| DB | 311 | CAGAGGTATCATCTGTGTTGTGTACAGACCCCTCAAAAAATCACACCTTCTGCT | 370 |
| OY | 301 | GTTGAGGTGCATCAGCCATAAGAAATGAAACAAGAACCGATCAACAATGCTTCTTCTA | 360 |
| DB | 371 | GTTGAGGTGCATCAGCCATAAGAAATGAAACAAGAACCGATCAACAATGCTTCTTCTA | 430 |
| OY | 361 | AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCACCATTGACCCA | 420 |
| DB | 431 | AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCACCATTGACCCA | 490 |
| OY | 421 | TCTGTGCCCATCTGGAATTTATATTGTGTGATATTGTCATCATCAGTGTGCAAT | 480 |
| DB | 491 | TCTGTGCCCATCTGGAATTTATATTGTGTGATATTGTCATCATCAGTGTGCAAT | 550 |
| OY | 481 | GCACTACTGATTTTATCAGGATCTGGCAACCTAGAGAAAGAACAAAGAACCACTGAA | 540 |
| DB | 551 | GCACTACTGATTTTATCAGGATCTGGCAACCTAGAGAAAGAACAAAGAACCACTGAA | 610 |
| OY | 541 | GTGATGACCGCTGAAGATAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCT | 600 |
| DB | 611 | GTGATGACCGCTGAAGATAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCT | 670 |
| OY | 601 | GATCCCCCTGACATGAAGGG-GGGCATTTATATGATGCTTTCATGACAGAGATGAGAG | 655 |
| DB | 671 | GATCCCCCTGACATGAAGGGGGCATTTATATGATGCTTTCATGACAGAGATGAGAG | 730 |
| OY | 660 | CTCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTCAAGAAATTAACATTTGTTCTG | 715 |
| DB | 731 | CTCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTCAAGAAATTAACATTTGTTCTG | 790 |
| OY | 720 | TGTGACTGCTGAGCATCTGAAATAACCAAGAGCATCATATATTTTGTTCACATCT | 775 |
| DB | 791 | TGTGACTGCTGAGCATCTGAAATAACCAAGAGCATCATATATTTTGTTCACATCT | 855 |
| OY | 780 | TCTTTTGTATATAATTTTGAATGTGCTTGAAGTGAAGAAAGCAATCATTAACCAACAA | 835 |
| DB | 851 | TCTTTTGTATATAATTTTGAATGTGCTTGAAGTGAAGAAAGCAATCATTAACCAACAA | 915 |
| OY | 840 | CACCACTGAATCATTAAGCTATTGACGACTCAAAATATTCTAAATATTTTCTGACAGT | 895 |
| DB | 911 | CACCACTGAATCATTAAGCTATTGACGACTCAAAATATTCTAAATATTTTCTGACAGT | 975 |
| OY | 900 | ATAGTGTATAAATGTGTCAATGTGTATTGTAGTATTGATTTAAGCATTTTGAAT | 955 |

| | | | |
|----|------|---|------|
| Db | 971 | ATAGTATTAATATGGTCATGTGTGTAATTTGTAGTATTTGATTGAATTTTAAGCATTTTGTAGAAAT | 1030 |
| Qy | 960 | AAGATCAGGCATATGTATATATATTTTTCACACTTCAAAGACCTTAAGGAAAATTAATTTTCC | 1019 |
| Db | 1031 | AAGATCAGGCATATGTATATATATTTTTCACACTTCAAAGACCTTAAGGAAAATTAATTTTCC | 1090 |
| Qy | 1020 | AGTGAGATATACATATATAATATGTGTAGAAATCATTGAAAATGATCCTTTTTCAGCATC | 1079 |
| Db | 1091 | AGTGAGAAATACATATATAATATGTGTAGAAATCATTGAAAATGATCCTTTTTCAGCATC | 1150 |
| Qy | 1080 | ACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAGAAATTAATTTGTAAATGG | 1135 |
| Db | 1151 | ACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAGAAATTAATTTGTAAATGG | 1210 |
| Qy | 1140 | ATGATATAAAAATGGAATTACTCATATATACAGGCTGGAAATTTTATCTCTGTATCACCAAC | 1199 |
| Db | 1211 | ATGATATAAAAATGGAATTACTCATATATACAGGCTGGAAATTTTATCTCTGTATCACCAAC | 1270 |
| Qy | 1200 | AGTGTATTATATATTTTCTGCAATATCAGGCCCTTAATAGGACAATTCATTTGTTGACCAT | 1255 |
| Db | 1271 | AGTGTATTATATATTTTCTGCAATATCAGGCCCTTAATAGGACAATTCATTTGTTGACCAT | 1330 |
| Qy | 1260 | TTCTACAATTTGTAAAAGTCCAACTGTGTCTAACTTAATAAGTATAATCATCTCTTTT | 1311 |
| Db | 1331 | TTCTACAATTTGTAAAAGTCCAACTGTGTCTAACTTAATAAGTATAATCATCTCTTTT | 1399 |
| Qy | 1320 | TAATAAAAAAAAAAAAAAAAAAAAAAAAAA 1346 | |
| Db | 1391 | TGATTTGTGAAAAAAAAAAAAAAAAAAAAA 1417 | |

RESULT 211
ADE11650

AC ADB11650;

Human secreted polypeptide cDNA #12.

Secreted protein; cancer; liver disorder; hepatitis; neural disorder
 Alzheimer's disease; human; ss; gene.

OS Synthetic.
OS Homo sapiens.

PN US2003100051-A1.

PD 29-MAY-2003

PF 10-SBP-2001; 2001US-00948783.

| | | |
|----|--------------|-----------------|
| PA | 12-MAY-1998; | 98US-0085093P |
| PR | 12-MAY-1998; | 98US-0085094P |
| PR | 12-MAY-1998; | 98US-0085105P |
| PR | 12-MAY-1998; | 98US-0085180P |
| PR | 12-MAY-1998; | 98US-0085106P |
| PR | 18-MAY-1998; | 98US-0085906P |
| PR | 18-MAY-1998; | 98US-0085920P |
| PR | 18-MAY-1998; | 98US-0085922P |
| PR | 18-MAY-1998; | 98US-0085922P |
| PR | 18-MAY-1998; | 98US-0085923P |
| PR | 18-MAY-1998; | 98US-0085924P |
| PR | 18-MAY-1998; | 98US-0085925P |
| PR | 18-MAY-1998; | 98US-0085927P |
| PR | 18-MAY-1998; | 98US-0085928P |
| PR | 18-MAY-1998; | 98US-0085928P |
| PR | 06-MAY-1999; | 99WO-US009847 |
| PR | 10-NOV-1999; | 99US-00437658 |
| PR | 11-SEP-2000; | 2000US-0231846P |
| PR | 28-JUN-2001; | 2001US-00892877 |
| XX | | |
| PA | (RUBE/) | RUBEN S M. |
| PA | (FLOR/) | FLORENCE K A. |

RESULT 212

AAZ65261

ID AAZ65261 standard, DNA; 1447 BP.

XX AC AAZ65261;

DT 23-MAR-2000 (first entry)

DB Human secreted protein gene 12.

XX KW Human; secreted protein; cancer; tumour; developmental abnormality; foetal deficiency; blood disorder; immune system disorder; inflammation; autoimmune disease; allergy; Alzheimer's disease; cognitive disorder; schizophrenia; arthritis; ascuma; psoriasis; sepsis; skin disorder; atherosclerosis; diabetes; cardiovascular disorder; kidney disorder; digestive disorder; endocrine disorder; infection; AIDS; leukaemia; therapy; ds.

XX OS Homo sapiens.

XX PN WO958660-A1.

XX PD 18-NOV-1999.

XX PF 06-MAY-1999; 99WO-US009847.

XX PR 12-MAY-1998; 98US-0085093P.
 PR 12-MAY-1998; 98US-0085094P.
 PR 12-MAY-1998; 98US-0085105P.
 PR 12-MAY-1998; 98US-0085180P.
 PR 18-MAY-1998; 98US-0085906P.
 PR 18-MAY-1998; 98US-0085920P.
 PR 18-MAY-1998; 98US-0085921P.
 PR 18-MAY-1998; 98US-0085922P.
 PR 18-MAY-1998; 98US-0085923P.
 PR 18-MAY-1998; 98US-0085924P.
 PR 18-MAY-1998; 98US-0085925P.
 PR 18-MAY-1998; 98US-0085927P.
 PR 18-MAY-1998; 98US-0085928P.

(HUMA-) HUMAN GENOME SCI INC.

XX PA Ruben SM, Florence K, Ni J, Rosen CA, Carter KC, Moore PA,
 PI Olsen HS, Shi Y, Young PE, Wei F, Brewer LA, Soppet DR, Lafleur DW;
 PI Andres GA, Ebner R;
 XX WPI; 2000-062296/05.
 DR P-PSDB; AAY76135.

XX PT New isolated human genes and the secreted polypeptides they encode,
 PT useful for diagnosis and treatment of e.g. cancers, neurological
 PT disorders, immune diseases, inflammation or blood disorders.

PS Claim 1; Page 303; 475pp; English.

XX AAZ65250 to AAZ65350 represent 97 isolated human secreted protein genes.
 CC AAY76124 to AAY76223 represent the secreted proteins encoded by the 97
 CC human genes. The genes and their corresponding secreted polypeptides are
 CC useful for preventing, treating or ameliorating medical conditions, e.g.
 CC by protein or gene therapy. Also pathological conditions can be diagnosed

by determining the amount of the new polypeptides in a sample or by determining the presence of mutations in the new genes. Specific uses are described for each of the 97 genes, based on which tissues they are most highly expressed in, and include developing products for the diagnosis or treatment of cancer, tumours, developmental abnormalities and foetal deficiencies, blood disorders, diseases of the immune system, autoimmune diseases, inflammation, allergies, Alzheimer's and cognitive disorders, schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders, atherosclerosis, diabetes, cardiovascular disorders, kidney disorders, digestive/endocrine disorders, infections and AIDS. The polypeptides are also useful for identifying their binding partners. The sequences shown in AAY76224 to AAY76424 represent fragments of the secreted proteins

Sequence 1447 BP; 488 A; 262 C; 256 G; 439 T; 0 U; 2 Other;

Query Match 98.2%; Score 626.6; DB 3; Length 1447;
Best Local Similarity 99.7%; Pred. No. 3.6e-181;
Matches 637; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

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OY 1 ATGTTGTCGCTCTTTTCTGTCGTCCTTCAAGCGATGTAAGTCTTCCATGAGAAA
DB 77 ATGTTGTCGCTCTTTTCTGTCGTCCTTCAAGCGATGTAAGTCTTCCATGAGAAA
OY 61 GCAGAAATGCTTTAAAGTAGACTAGATCAGAACAGCTCGGAGATAAGCATAT
DB 137 GCAGAAATGCTTTAAAGTAGACTAGATCAGAACAGCTCGGAGATAAGCATAT
OY 121 GCCTGGATACATGAAGATACCTCTTCAAGCGATGTAAGTCTTCCATGAGAAA
DB 197 GCCTGGATACATGAAGATACCTCTTCAAGCGATGTAAGTCTTCCATGAGAAA
OY 181 GTTCCCAACAGAGAACCAAGAAATTTCCATGTCCTACTTTCATGTAAGCAGAG
DB 257 GTTCCCAACAGAGAACCAAGAAATTTCCATGTCCTACTTTCATGTAAGCAGAG
OY 241 GTATCATCTGTTGTGTGTTACGACCTTCAAAATCAGACCTTCTGCTGTAG
DB 317 GTATCATCTGTTGTGTGTTACGACCTTCAAAATCAGACCTTCTGCTGTAG
OY 301 GTGCAATCAGCCATGAAGATGAACAGACCGATCAATGCTCTTCTTAATGAC
DB 377 GTGCAATCAGCCATGAAGATGAACAGACCGATCAATGCTCTTCTTAATGAC
OY 361 CAAACTCTGGAATTTTAAATCCCTCCACACTGACACCAATGAGCCATCTGTG
DB 437 CAAACTCTGGAATTTTAAATCCCTCCACACTGACACCAATGAGCCATCTGTG
OY 421 CCCATCTGATTTATATTTGTGTGATATTTGATCATCATAGTGCATTTGACTA
DB 497 CCCATCTGATTTATATTTGTGTGATATTTGATCATCATAGTGCATTTGACTA
OY 481 CTGATTTTATCAGGATCTGCAACGTTAGAGAAAGAACCACTGTAAGTGAT
DB 557 CTGATTTTATCAGGATCTGCAACGTTAGAGAAAGAACCACTGTAAGTGAT
OY 541 GACGCTGAAGATAAGTGAAGAAACATATCACAATTGAAATGGCATCCCTCTGATCC
DB 617 GACGCTGAAGATAAGTGAAGAAACATATCACAATTGAAATGGCATCCCTCTGATCC
OY 601 CTGACATGAAGGG-GGGCATATTAATGATGCTTCATG 638
DB 677 CTGACATGAAGGGGAGGGCATATTAATGATGCTTCATG 715
```

RESULT 213

ADE11650
ID ADE11650 standard; cDNA; 1447 BP.
XX ADE11650;
XX
XX AC ADE11650;
XX
XX DT 29-JAN-2004 (first entry)
XX
DB Human secreted polypeptide cDNA #12.

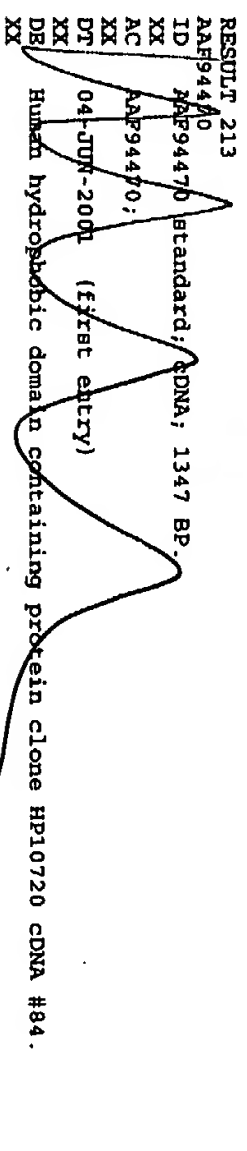
XX Key Location/Qualifiers
FH CDS 71..739
FT /+tag= a
FT /note= "secreted protein"

XX PN WO9832853-A2.
XX PD 30-JUL-1998.
XX PF 23-JAN-1998; 98WO-US001396.
XX PR 24-JAN-1997; 97US-00788789.
XX PA (GENY) GENETICS INST INC.
XX PI Jacobs K, McCoy JM, Lavalie ER, Racie LA, Merberg D, Treacy M;
PI Spaulding V, Agostino MJ;
XX WPI; 1998-427949/36.
XX DR P-PSDB; AAM29670.
XX PT New isolated polynucleotide(s) and secreted proteins - isolated from
PT human foetal kidney, adult brain, adult salivary gland, foetal brain and
PT adult testes cDNA libraries.
XX PS Claim 16; Page 64-65; 109pp; English.
XX CC The sequence is that of encoding a secreted protein. Such a protein can
CC have biological activities, e.g. nutritional activity, cytokine and cell
CC proliferation/differentiation activity, immune stimulating or suppressing
CC activity, haematopoiesis regulating activity, tissue growth activity,
CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, cadherin/tumour invasion suppressor activity, tumour inhibition
CC activity, and other activities
XX SQ Sequence 1401 BP; 458 A; 258 C; 251 G; 434 T; 0 U; 0 Other;

Query Match 98.2%; Score 1321.8; DB 2; Length 1401;
Best Local Similarity 99.8%; Pred. No. 1.3e-257;
Matches 1334; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 1 GAAGAATGTTGGCTCTTTTCTGTTGAGCTGCCATGCTGAATCTGTCAA 60
DB 65 GAAGAATGTTGGCTCTTTTCTGTTGAGCTGCCATGCTGAATCTGTCAA 124
QY 61 CCAAGTGCAGAAATGCTTTTAAAGTGAAGTATGATCAGAAAGCTCTGGAGATAA 120
DB 125 CCAAGTGCAGAAATGCTTTTAAAGTGAAGTATGATCAGAAAGCTCTGGAGATAA 184
QY 121 GCATATGCTGGGATACCAATGAGATACCTCTCAAGCGATGATCTTCTCATG 180
DB 185 GCATATGCTGGGATACCAATGAGATACCTCTCAAGCGATGATCTTCTCATG 244
QY 181 AGAAAGTTCCTCAACAGAGAGACAGAAATTTCCCATGTCTTACTTTGCAATGTAAC 240
DB 245 AGAAAGTTCCTCAACAGAGAGACAGAAATTTCCCATGTCTTACTTTGCAATGTAAC 304
QY 241 CAGAGGGTATCATTTCTGTTTGTGTTACAGACCTTCAAAAAATCAACCCCTTCTGCT 300
DB 305 CAGAGGGTATCATTTCTGTTTGTGTTACAGACCTTCAAAAAATCAACCCCTTCTGCT 364
QY 301 GTTGAAGTGAATCAGCCATAGATGACAGAAACCGATCAACATGCTTCTTCTA 360
DB 365 GTTGAAGTGAATCAGCCATAGATGACAGAAACCGATCAACATGCTTCTTCTA 424
QY 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGAACCAACCAACCA 420
DB 425 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGAACCAACCAACCA 484
QY 421 TCTGTGCCATCTGATTAATTAATTTGTGTGATTAATTTGATCATCATAGTTGCAATT 480
XX

DB 485 TCTGTGCCATCTGATTAATTAATTTGTGTGATTAATTTGATCATCATAGTTGCAATT 544
QY 481 GCACTACTGATTTTATCAGGATCTGGCAACGTAGAGAAACCAATCTGAA 540
DB 545 GCACTACTGATTTTATCAGGATCTGGCAACGTAGAGAAACCAATCTGAA 604
QY 541 GTGATGACCTGAGATAGATAGTGTGAAAACATGATCAAAATGAAATGGCATCCCTCT 600
DB 605 GTGATGACCTGAGATAGATAGTGTGAAAACATGATCAAAATGAAATGGCATCCCTCT 664
QY 601 GATCCCTGACATGAGAGG-GGGATATTAATGATGCTTCATGACAGAGATGAGAG 659
DB 665 GATCCCTGACATGAGAGGAGGATATTAATGATGCTTCATGACAGAGATGAGAG 724
QY 660 CTCACCCCTCTGTAAGGCTGTGTCTGCTCTCCCTCAAGAAATTAACATTTGTTCTG 719
DB 725 CTCACCCCTCTGTAAGGCTGTGTCTGCTCTCCCTCAAGAAATTAACATTTGTTCTG 784
QY 720 TGTGACTGAGCATCTGAAATACCAAGACAGATCATATTTTGTTCACCATTTCT 779
DB 785 TGTGACTGAGCATCTGAAATACCAAGACAGATCATATTTTGTTCACCATTTCT 844
QY 780 TCTTTTGAATTAATTTTGAATGTGCTTGAAGTGAAGCAATCAATTATPACCAACAA 839
DB 845 TCTTTTGAATTAATTTTGAATGTGCTTGAAGTGAAGCAATCAATTATPACCAACAA 904
QY 840 CACCACTGAATCATTAAGTATTCAGACTCAAAATATTTCTGAACAGT 899
DB 905 CACCACTGAATCATTAAGTATTCAGACTCAAAATATTTCTGAACAGT 964
QY 900 ATAGTATTAATGTGTGATGTGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 959
DB 965 ATAGTATTAATGTGTGATGTGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 1024
QY 960 AAGATCAGGATATGATTAATTTTCACTCAAGACCTTAAGCAAAATTAATTTTCC 1019
DB 1025 AAGATCAGGATATGATTAATTTTCACTCAAGACCTTAAGCAAAATTAATTTTCC 1084
QY 1020 AGTGAGATATCATATTAATGTGTGATTAATTTGATTTGATTTGATTTGATTTGATTTG 1079
DB 1085 AGTGAGATATCATATTAATGTGTGATTAATTTGATTTGATTTGATTTGATTTGATTTG 1144
QY 1080 ACTTATATCATCTGTATATGACTAAGTAAACAAAGTGAGATTAATTTGATTTGATTTG 1139
DB 1145 ACTTATATCATCTGTATATGACTAAGTAAACAAAGTGAGATTAATTTGATTTGATTTG 1204
QY 1140 ATGATTAATAATGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1199
DB 1205 ATGATTAATAATGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1264
QY 1200 AGTGATTAATTAATTTTGAATATCAGCCCTTAATAGACATTTCTATTTGATGACCAT 1259
DB 1265 AGTGATTAATTAATTTTGAATATCAGCCCTTAATAGACATTTCTATTTGATGACCAT 1324
QY 1260 TTCTACAATTTGTAAAGTCCATCTGTCTAATTAATTAATTAATTAATTAATTAATTAAT 1319
DB 1325 TTCTACAATTTGTAAAGTCCATCTGTCTAATTAATTAATTAATTAATTAATTAATTAAT 1384
QY 1320 TAAAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1336
DB 1385 AAAAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1401



OY 541 GACGCTGAAGATTAAGTGTGAATAACATGATCACAATTGAAATGGCATCCCTCTGATCCC 600
DB 564 GACGCTGAAGATTAAGTGTGAATAACATGATCACAATTGAAATGGCATCCCTCTGATCCC 623
OY 601 CTGGACATGAAGGG-GGGCATATTATGATGCTTCATG 638
DB 624 CTGGACATGAAGGGAGGGCATATTATGATGCTTCATG 662

RESULT 215
AAV40540 standard; cDNA; 1401 BP.
AC AAV40540;
XX 09-NOV-1998 (first entry)
DB Homo sapiens secreted protein clone AAV42_3.
XX Homo sapiens secreted protein; ds.
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 71..739
FT /tag= a
FT /note= "secreted protein"

XX WO9832853-A2.
XX 30-JUL-1998.
XX 23-JAN-1998; 98WO-US001396.
XX 24-JAN-1997; 97US-00788789.
XX (GENE) GENETICS INST INC.
XX Jacobs K, McCoy JM, Lavallie ER, Racie LA, Merberg D, Treacy M;
PI Spaulding V, Agostino MJ;
XX MPI; 1998-427949/36.
XX P-PSDB; AAW29670.
XX
XX New isolated polynucleotide(s) and secreted proteins - isolated from
PT human foetal kidney, adult brain, adult salivary gland, foetal brain and
PT adult testes cDNA libraries.
XX
XX Claim 16; Page 64-65; 109pp; English.
XX
XX The sequence is that of encoding a secreted protein. Such a protein can
CC have biological activities, e.g. nutritional activity, cytokine and cell
CC proliferation/differentiation activity, immune stimulating or suppressing
CC activity, haematopoiesis regulating activity, tissue growth activity,
CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, cadherin/tumour invasion suppressor activity, tumour inhibition
CC activity, and other activities
XX
XX Sequence 1401 BP; 458 A; 258 C; 251 G; 434 T; 0 U; 0 Other;

Query Match 98.0%; Score 625.4; DB 2; Length 1401;
Best Local Similarity 99.7%; Pred. No. 8.3e-181;
Matches 637; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

OY 1 ATGTTGGGCTGCTCTTTTCTGGAGCTGCCATTGATGCTGAAGTCTGTCAACAGGT 60
DB 71 ATGTTGGGCTGCTCTTTTCTGGAGCTGCCATTGATGCTGAAGTCTGTCAACAGGT 130
OY 61 GCAGAAATGCTTTTAAAGTGAAGCTTATGATCAAGACAGCTCTGGAGATAAGCATAT 120
DB 131 GCAGAAATGCTTTTAAAGTGAAGCTTATGATCAAGACAGCTCTGGAGATAAGCATAT 190

OY 121 GCCTGGATACCAATGAAGATAACCTCTTCAAAAGCATGTGTAGCTTTCTCCATGAGAAA 180
DB 191 GCCTGGATACCAATGAAGATAACCTCTTCAAAAGCATGTGTAGCTTTCTCCATGAGAAA 250
OY 181 GTTCCCAAGAGAGAGCAACAGAAATTTCCTGCTACTTTGCAATGTAAACCAAGAG 240
DB 251 GTTCCCAAGAGAGAGCAACAGAAATTTCCTGCTACTTTGCAATGTAAACCAAGAG 310
OY 241 GTATCATTCTGTTTGTGTGTTACAGACCTTCAAAAATCACAACCTTCTGTTGAG 300
DB 311 GTATCATTCTGTTTGTGTGTTACAGACCTTCAAAAATCACAACCTTCTGTTGAG 370
OY 301 GTGCAATCAGCCATTAAGATGAACAGACCGGATCAACATGCTTCTTAAATGAC 360
DB 371 GTGCAATCAGCCATTAAGATGAACAGACCGGATCAACATGCTTCTTAAATGAC 430
OY 361 CAAACTGTGAATTTTAAATAATCCCTTCCACACTTGACCAACCCATGACCACTGTG 420
DB 431 CAAACTGTGAATTTTAAATAATCCCTTCCACACTTGACCAACCCATGACCACTGTG 490
OY 421 CCCATCTGATTAATTAATTTGCTGTGATATTTTGATCATCATAGTTGCAATTGCACTA 480
DB 491 CCCATCTGATTAATTAATTTGCTGTGATATTTTGATCATCATAGTTGCAATTGCACTA 550
OY 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAAAGAAACCATCTGAAGTGAT 540
DB 551 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAAAGAAACCATCTGAAGTGAT 610
OY 541 GACGCTGAAGATTAAGTGTGAATAACATGATCACAATTGAAATGGCATCCCTCTGATCCC 600
DB 611 GACGCTGAAGATTAAGTGTGAATAACATGATCACAATTGAAATGGCATCCCTCTGATCCC 670
OY 601 CTGGACATGAAGGG-GGGCATATTATGATGCTTCATG 638
DB 671 CTGGACATGAAGGGAGGGCATATTATGATGCTTCATG 709

RESULT 216
AAK19983
ID AAK19983 standard; cDNA; 848 BP.
XX
XX AAK19983;
AC
XX
DT 16-JUN-1999 (first entry)
XX
XX Human secreted protein 5' EST SEQ ID NO:27.
XX
XX Human; secreted protein; EST; expressed sequence tag; diagnosis;
KW forensic; gene therapy; chromosome mapping; signal peptide;
KW upstream regulatory sequence; cytokine activity; cell proliferation;
KW differentiation; haematopoiesis regulation; tissue growth regulation;
KW reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
KW thrombolytic; anti-inflammatory; tumour inhibition; ds.
XX
XX Homo sapiens.
XX
XX WO9906439-A2.
XX
XX 11-FEB-1999.
XX
XX 31-JUL-1998; 98WO-IB001233.
XX
XX 01-AUG-1997; 97US-00904468.
XX
XX (GBST) GENSET.
XX
XX Dumas Milne Edwards J, Duclert A, Lacroix B;
PI
XX
XX MPI; 1999-153700/13.
XX
XX P-PSDB; AAY04156.
XX
XX New nucleic acids encoding human secreted proteins - obtained from cDNA

libraries derived from liver, lung, large intestine, colon, thyroid and pancreas tissue.

Example 28; Page 157-158; 398bp; English.

AAK40251 to AAK40397 represent 5' expressed sequence tags (ESTs) for human secreted proteins, and encode the proteins given in AAY11533 to AAY11679, respectively. The proteins given represent the signal peptide and an N-terminal fragment of a secreted protein. The nucleic acid sequences can be used for producing secreted human gene products. They can also be used to develop products for diagnosis and therapy. The proteins obtained may have cytokine activity, cell proliferation/differentiation activity, haematopoiesis regulating activity, tissue growth regulating activity, reproductive hormone regulating activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, receptor/ligand activity, anti-inflammatory activity, tumour inhibition activity or other activities. The products can be used in forensic, gene therapy and chromosome mapping procedures. The sequences can also be used for obtaining corresponding promoter sequences. The nucleic acids encoding the signal peptide can be used for directing extracellular secretion of a polypeptide or the insertion of a polypeptide into a membrane, or importing a polypeptide into a cell. The present sequence represents a 5' EST from an example of the present invention

Sequence 848 BP; 257 A; 180 C; 161 G; 244 T; 0 U; 6 Other;

Query Match 98.0%; Score 625; DB 2; Length 848;

Best Local Similarity 99.2%; Pred. No. 8.7e-181;

Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

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OY 1 ATGTTGGCTGCTCTTTTCTGTTGAGTCCATTCATGCTGAACTCTGTCAACAGGT 60
DB 32 ATGTTGGCTGCTCTTTTCTGTTGAGTCCATTCATGCTGAACTCTGTCAACAGGT 91
OY 61 GCAGAAATGCTTTTAAAGTAGACTAGTATCAGAACAGCTCTGGAGATAAAGCATAT 120
DB 92 GCAGAAATGCTTTTAAAGTAGACTAGTATCAGAACAGCTCTGGAGATAAAGCATAT 151
OY 121 GCCTGGATACCAATGAGATACCTCTTCAAAAGCATGAGTCTTCTCATGAGAAA 180
DB 152 GCCTGGATACCAATGAGATACCTCTTCAAAAGCATGAGTCTTCTCATGAGAAA 211
OY 181 GTTCCCAACAGAGAGCAAGAAATTTCCATGTCTTACTTGTCAATGTAAACCCAGAG 240
DB 212 GTTCCCAACAGAGAGCAAGAAATTTCCATGTCTTACTTGTCAATGTAAACCCAGAG 271
OY 241 GTATCATCTGTTGTGTTAGACACCTTCAAAAATCAACCTTCTGCTGTGAG 300
DB 272 GTATCATCTGTTGTGTTAGACACCTTCAAAAATCAACCTTCTGCTGTGAG 331
OY 301 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCAACATGCTTCTTAATGAC 360
DB 332 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCAACATGCTTCTTAATGAC 391
OY 361 CAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCAACCATGACCCATCTGTG 420
DB 392 CAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCAACCATGACCCATCTGTG 451
OY 421 CCCATCTGATTAATTAATTTGTTGATATTTTGCATCATCATAGTTGCAATGCACTA 480
DB 452 CCCATCTGATTAATTAATTTGTTGATATTTTGCATCATCATAGTTGCAATGCACTA 511
OY 481 CTGATTTATCAGGATCTGCAACGTAGAGAAAGAAAGAACCAATCTGAAGTGAT 540
DB 512 CTGATTTATCAGGATCTGCAACGTADARAAAGAACCAATCTGAAGTGAT 571
OY 541 GACGCTGAAGATTAAGTGAAGAAACATGATCACAATGAAATGGCATCCCTCTGATCCC 600
DB 572 GACGCTGAABATTAATGTAAGAAACATGATCACAATGAAATGGCATCCCTCTGATCCC 631
OY 601 CTGACATGAAGGG-GGGCATTAATTAATGATGCTTCATG 638
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DB 632 CTGACATGAAGGAGGATATTAATGATGCTTCATG 670

RESULT 217

AAK39430 AAK39430 standard; DNA; 848 BP.

AC AAK39430;

DT 21-JUN-1999 (first entry)

DB Human secreted protein 5' EST SEQ ID NO: 27.

Human; secreted protein; EST; expressed sequence tag; diagnosis; forensic; gene therapy; chromosome mapping; signal peptide; upstream regulatory sequence; cytokine activity; cell proliferation; differentiation; haematopoiesis regulation; tissue growth regulation; reproductive hormone regulation; chemotactic; chemokinetic; haemostatic; thrombolytic; anti-inflammatory; tumour inhibition; ds.

Homo sapiens.

WO9906551-A2.

11-FEB-1999.

31-JUL-1998; 98WO-IB001235.

01-AUG-1997; 97US-00905133.

(GENST) GENSET.

Dumas Milne Edwards J, Duclert A, Lacroix B;

WPI; 1999-153781/13.

P-PSDB; AAW93620, AAY11373.

New nucleic acids encoding human secreted - proteins obtained from cDNA libraries prepared from substantia nigra, cerebellum, adrenals and fetal brain tissue.

Example 28; Page 157-158; 434bp; English.

AAK39440 to AAK39597 represent 5' expressed sequence tags (ESTs) for human secreted proteins, and encode the proteins given in AAY11374 to AAY11531, respectively. The proteins given represent the signal peptide and an N-terminal fragment of a secreted protein. The nucleic acid sequences can be used for producing secreted human gene products. They can also be used to develop products for diagnosis and therapy. The proteins obtained may have cytokine activity, cell proliferation/differentiation activity, haematopoiesis regulating activity, tissue growth regulating activity, reproductive hormone regulating activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, receptor/ligand activity, anti-inflammatory activity, tumour inhibition activity or other activities. The products can be used in forensic, gene therapy and chromosome mapping procedures. The sequences can also be used for obtaining corresponding promoter sequences. The nucleic acids encoding the signal peptide can be used for directing extracellular secretion of a polypeptide or the insertion of a polypeptide into a membrane, or importing a polypeptide into a cell. This sequence encodes the human 5' EST secreted proteins represented in AAW93620 and AAY11373

Sequence 848 BP; 257 A; 180 C; 161 G; 244 T; 0 U; 6 Other;

Query Match 98.0%; Score 625; DB 2; Length 848;

Best Local Similarity 99.2%; Pred. No. 8.7e-181;

Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

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OY 1 ATGTTGGCTGCTCTTTTCTGTTGAGTCCATTCATGCTGAACTCTGTCAACAGGT 60
DB 32 ATGTTGGCTGCTCTTTTCTGTTGAGTCCATTCATGCTGAACTCTGTCAACAGGT 91
```

| | | | | | | |
|----|-----|---------------------------|----------|-----------------|--------------|-----|
| QY | 541 | GAGCTGAGATAAGTGTGAAAA | CATGATCA | CAATTGAAATGGCAT | CCCTCTGATCCC | 600 |
| | | | : | : | : | |
| Db | 572 | GAGCTGAARATAAKTGTGAAAA | CATGATCA | CAATTGAAATGGCAT | CCCTCTGATCCC | 631 |
| | | | : | : | : | |
| QY | 601 | CTGGACATGAAGGG-GGGCATATTA | TGATGCTT | CATG | 638 | |
| | | | | | | |
| Db | 632 | CTGGACATGAAGGGGCATATTA | TGATGCTT | CATG | 670 | |
| | | | | | | |

RESULT 2
HS-09-24

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US-09-247-155-27
: Sequence 27, Application US/092471155A
: Patent No. 6312922
: GENERAL INFORMATION:
: APPLICANT: Dumas Milne Edwards, Jean-Baptiste
: APPLICANT: Duclert, Aymeric
: APPLICANT: Bougueleret, Lydie
: TITLE OF INVENTION: Complementary DNAs
: FILE REFERENCE: GENSET.021A
: CURRENT APPLICATION NUMBER: US/09/247,155A
: CURRENT FILING DATE: 1999-02-09
: EARLIER APPLICATION NUMBER: 60/074,121
: EARLIER FILING DATE: 1998-02-09
: EARLIER APPLICATION NUMBER: 60/081,563
: EARLIER FILING DATE: 1998-04-13
: EARLIER APPLICATION NUMBER: 60/096,116
: EARLIER FILING DATE: 1998-08-10
: EARLIER APPLICATION NUMBER: 60/099,273
: NUMBER OF SEQ ID NOS: 1998-10-04
: SOFTWARE: Patent.pm
: SEQ ID NO 27
: LENGTH: 848
: TYPE: DNA
: ORGANISM: Homo Sapiens
: FEATURE:
: NAME/KEY: sig.peptide
: LOCATION: 32..73
: OTHER INFORMATION: Von Heijne matrix
US-09-247-155-27

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Query Match      98.0%; Score 625; DB 4; Length 848;
Best Local Similarity 99.2%; Pred. No. 1.2e-184;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1,

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| QY | 1 | ATGTTGCGCTGCTCTTTTCTGCTGAGCTGCCATTCATGCTGAACTCTGTCAACCAAGT | 60 |
| Db | 32 | ATGTTGCGCTGCTCTTTTCTGCTGAGCTGCCATTCATGCTGAACTCTGTCAACCAAGT | 91 |
| QY | 61 | GCAGAAAATGCTTTTAAAGTGAAGACTTAGTATCAGAACAGCTCTGGAGATAAAGCATAT | 120 |
| Db | 92 | GCAGAAAATGCTTTTAAAGTGAAGACTTAGTATCAGAACAGCTCTGGAGATAAAGCATAT | 151 |
| QY | 121 | GCCTGGGATACCAATGAAGAAATACCTCTTCAAAAGCGATGTAGCTTCTCATGAGAAA | 180 |
| Db | 152 | GCCTGGGATACCAATGAAGAAATACCTCTTCAAAAGCGATGTAGCTTCTCATGAGAAA | 211 |
| QY | 181 | GTTCCCAACAGAGAGCAAAGAAATTTCCATGCTCTTGCATGTAAACCAGAG | 240 |
| Db | 212 | GTTCCCAACAGAGAGCAAAGAAATTTCCATGCTCTTGCATGTAAACCAGAG | 271 |
| QY | 241 | GATCATTCGCTTGTGCTTACAGACCTTCAAAAAATCAACCCCTCTCTGTGTAG | 300 |
| Db | 272 | GATCATTCGCTTGTGCTTACAGACCTTCAAAAAATCAACCCCTCTCTGTGTAG | 331 |
| QY | 301 | GTCGATCAGCCATTAAGATGAACAAGAACCGGATCAACAATGCTTCTTAAATGAC | 360 |
| Db | 332 | GTCGATCAGCCATTAAGATGAACAAGAACCGGATCAACAATGCTTCTTAAATGAC | 391 |
| QY | 361 | CAAACTCTGAATTTTAAAAATCCCTTCCACACTTGACCAACCCATGACCTGTG | 420 |
| Db | 392 | CAAACTCTGAATTTTAAAAATCCCTTCCACACTTGACCAACCCATGACCTGTG | 451 |

| | | | |
|----|-----|--|-----|
| QY | 421 | CCGATCTGGATTATTAATTGGTGTGATATTTGGATCATCATAGTTCGAATTGCATTA | 480 |
| | | | |
| | | | |
| Db | 452 | CCGATCTGGATTATTAATTGGTGTGATATTTGGATCATCATAGTTCGAATTGCATTA | 511 |
| | | | |
| | | | |
| QY | 481 | CTGATTTTATCAGGGATCTGGCAAAGTGAAGAAACAACAAGAACCATCTGAAGTGAT | 540 |
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| Db | 512 | CTGATTTTATCAGGGATCTGGCAAAGTGAAGAAACAACAAGAACCATCTGAAGTGAT | 571 |
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| | | | |
| QY | 541 | GACGCTGAAGATTAAGTGTGAAAACATGATCACAAATTGAAAATGGCATCCCTGTATCCC | 600 |
| | | | |
| | | | |
| Db | 572 | GACGCTGAAGATTAAGTGTGAAAACATGATCACAAATTGAAAATGGCATCCCTGTATCCC | 631 |
| | | | |
| | | | |
| QY | 601 | CTGACATGAAGGG-GGGCATATTAATGATGCTTCATG | 638 |
| | | | |
| | | | |
| Db | 632 | CTGACATGAAGGGAGGCGCATATTAATGATGCTTCATG | 670 |
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RESULT. 3

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US-09-663-600A-27
; Sequence 27, Application US/09663600A
; Patent No. 6573068
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; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
; APPLICANT: Duclet, Aymeric
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS
; FILE REFERENCE: 31.US3.CIP
; CURRENT APPLICATION NUMBER: US/09/663,600A
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: 09/191,997
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: 60/066,677
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/069,957
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/074,121
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: 60/081,563
; PRIOR FILING DATE: 1998-04-13
; PRIOR APPLICATION NUMBER: 60/096,116
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: 60/099,273
; PRIOR FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 229
; SOFTWARE: Patent.pm
; SEQ ID NO 27
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; LENGTH: 848
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; TYPE: DNA
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; ORGANISM: Homo Sapiens
;
; FEATURE:
;
; NAME/KEY: sig_peptide
; LOCATION: 32..73
;
; OTHER INFORMATION: Von Heijne matrix
US-09-663-600A-27

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[illegible]

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 6, 2004, 09:17:55 ; Search time 5274.77 Seconds
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Perfect score: 1346
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Gapop 10.0 , Gapext 1.0

Searched: 3470272 segs, 2167151695 residues

Total number of hits satisfying chosen parameters: 12

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 80%
Maximum Match 100%
Listing first 65000 summaries

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3: gb_in:*
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8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
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12: gb_sy:*
13: gb_un:*
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41: em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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| 2 | 1346 | 100.0 | 1346 | 6 AX403499 | AX403499 Sequence |
| 3 | 1346 | 100.0 | 1346 | 6 AX464348 | AX464348 Sequence |
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| 5 | 1328.6 | 98.7 | 1605 | 9 BC014317 | BC014317 Homo sapi |
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| 8 | 1324.6 | 98.4 | 1447 | 6 BD205644 | BD205644 97 human |
| 9 | 1321.8 | 98.2 | 1401 | 6 BD083420 | BD083420 Secretd |
| 10 | 1309.4 | 97.3 | 1347 | 6 AX083392 | AX083392 Sequence |
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ALIGNMENTS

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DEFINITION Sequence 386 from patent US 6478825.
ACCESSION AR252633
VERSION AR252633.1 GI:27300541
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1346)
AUTHORS Winterbottom,J.M., Shimp,L., Boyce,T.M. and Kaes,D.
TITLB Implant, method of making same and use of the implant for the
JOURNAL treatment of bone defects
FEATURES Patent: US 6478825-A 386 12-NOV-2002;
source Location/Qualifiers
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/organism="unknown"
/mol_type="genomic DNA"
ORIGIN
Query Match 100.0%; Score 1346; DB 6; Length 1346;
Best Local Similarity 100.0%; Pred. No. 2e-266;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 GAAAGATGTGTGGCTGCTCTTTTCTGTGACTGCGCATTCATGCTGAACTGTGCAA 60
QY 61 CCAGTGCAGAAAATGCTTTTAAAGTGAAGCTTAGTATCAGAACAGAGCTCTGGAGATAAA 120
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QY 121 GCATATGCTTGGGATACCAATGAAGATACCTCTTCAAGCGATGTAAGCTTTTCCATG 180
DB 121 GCATATGCTTGGGATACCAATGAAGATACCTCTTCAAGCGATGTAAGCTTTTCCATG 180
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QY 241 CAGAGGTATCATTCGTGTTGTGTTAAGAGACCTTCAAAAATCAGACCTTCTGCT 300
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QY 301 GTTGAAGTCAATCAGCATTAAGATGAACAAGAACCGATCAACAATGCTTCTTTCTA 360
DB 301 GTTGAAGTCAATCAGCATTAAGATGAACAAGAACCGATCAACAATGCTTCTTTCTA 360

| | | | |
|----|------|---|------|
| Qy | 361 | AATGACCCAAACTCTGGAAATTTTAAATAATCCCTTCCACACTTGACCAACCACGCCCA | 420 |
| Db | 361 | AATGACCCAAACTCTGGAAATTTTAAATAATCCCTTCCACACTTGACCAACCACGCCCA | 420 |
| Qy | 421 | TCCTGTGCCCCATCTGGATTATTAATATTGGTGTGATAATTTTGCAATCATATAGTTGCAATT | 480 |
| Db | 421 | TCCTGTGCCCCATCTGGATTATTAATATTGGTGTGATAATTTTGCAATCATATAGTTGCAATT | 480 |
| Qy | 481 | GCACTACTGATTTTATCAGGGACTGTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAA | 540 |
| Db | 481 | GCACTACTGATTTTATCAGGGACTGTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAA | 540 |
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| Db | 541 | GTCGATGACGCTGAGATTAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCT | 600 |
| Qy | 601 | GATCCCTCGACATGAAAGGGGGCAATTATATGATGCTTCATGACAGAGATGAGAGGC | 660 |
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| Qy | 661 | TCAACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTCAAGAAATTAAACATTTGTTCTGT | 720 |
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| Qy | 721 | GTCGCTGCTGAGCATCTGAAATACCAAGACAGATCATATATTGTTCCACCATCTT | 780 |
| Db | 721 | GTCGCTGCTGAGCATCTGAAATACCAAGACAGATCATATATTGTTCCACCATCTT | 780 |
| Qy | 781 | CTTTGTATAAATTTTGAATGTGCTTGAAGTGAAAAGCAATCAATTATACCCACAAC | 840 |
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| Qy | 841 | ACCACTGAATCATTAAGCTATTCAAGACTCAAAATATTCTAAATATTTTCTGACAGTA | 900 |
| Db | 841 | ACCACTGAATCATTAAGCTATTCAAGACTCAAAATATTCTAAATATTTTCTGACAGTA | 900 |
| Qy | 901 | TAGCTATTAATGTGTCATGTGTATTGTAATTGATTGAATTTTGAAGATTTTGAATA | 960 |
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| Db | 961 | AGATCAGGCATATGTATATATTTTCACACTTCAAAGACCTAAGGAAAATAAATTTTCCA | 1020 |
| Qy | 1021 | GTCGAGAATACATTAATATGTGTGTAAGAAATCATTTGAAAATGATCTTTTTCAGCATCA | 1080 |
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| Qy | 1081 | CTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGTAAATTATGTAATGGA | 1140 |
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| Qy | 1141 | TGGATTAATAATGGAATTACTCATATACAGGGTGAATTTTATCCTGTATACACCCACA | 1200 |
| Db | 1141 | TGGATTAATAATGGAATTACTCATATACAGGGTGAATTTTATCCTGTATACACCCACA | 1200 |
| Qy | 1201 | GTTGATTTATATATTTTCTGAATATCAGCCCCCTAATAGACAAATTTCTATTGTTGACCAAT | 1260 |
| Db | 1201 | GTTGATTTATATATTTTCTGAATATCAGCCCCCTAATAGACAAATTTCTATTGTTGACCAAT | 1260 |
| Qy | 1261 | TCTACAAATTTGTAAAAGTCCAAATCTGTGCTAACTTAATTAAGTAAATATCATCTCTTTT | 1320 |
| Db | 1261 | TCTACAAATTTGTAAAAGTCCAAATCTGTGCTAACTTAATTAAGTAAATATCATCTCTTTT | 1320 |
| Qy | 1321 | AAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346 | |
| Db | 1321 | AAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346 | |

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| DEFINITION | Sequence 386 from Patent WO0073454. |
| ACCESSION | AX403499 |
| VERSION | AX403499.1 |
| KEYWORDS | GI:21436987 |
| SOURCE | . |
| ORGANISM | Homo sapiens (human) |
| REFERENCE | Homo sapiens |
| AUTHORS | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. |
| TITLE | 1 Ashkenazi, A.J., Baker, K.P., Botstein, D., Desnoyer, L., Baton, D., Ferrara, N., Gerber, H., Gertltsen, M., Goddard, A., Godowski, P., Grimaldi, C.J., Gurney, A.L., Kljavin, I., Napier, M.A., Pan, J., Paoni, N.F., Roy, M., Stewart, T.A., Tumas, D., Watanabe, C.K., Williams, P., Wood, W.I. and Zhang, Z. |
| JOURNAL | Secreted and transmembrane polypeptides and nucleic acids encoding the same |
| FEATURES | Patent: WO 0073454-A 386 07-DEC-2000; Genentech Inc. (US) |
| source | Location/Qualifiers |
| | 1. 1346 |
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| ORIGIN | |

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|-----------------------|--|-------------------|-----------|--------------|
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| DB 1 | GAAAGATGTTGTGGCTGCTCTTTTCTGTGTGACTGCCATTCATGCTGAACCTGTCAA | 60 | | |
| QY 61 | CCAAGTGCAGAAATAGCTTTTAAAGTGAAGCTTAGTATCAGAACAGCTCTGGGAGATAAA | 120 | | |
| DB 61 | CCAAGTGCAGAAATAGCTTTTAAAGTGAAGCTTAGTATCAGAACAGCTCTGGGAGATAAA | 120 | | |
| QY 121 | GCATATGCTCTGGGATACCAATGAGATACCTCTTCAAGCGATGTAGCTTCTCCATG | 180 | | |
| DB 121 | GCATATGCTCTGGGATACCAATGAGATACCTCTTCAAGCGATGTAGCTTCTCCATG | 180 | | |
| QY 181 | AGAAAGTTCCCAACAGAGAACACAGAAATTTCCCATGTCTTCTTGAATGTAAAC | 240 | | |
| DB 181 | AGAAAGTTCCCAACAGAGAACACAGAAATTTCCCATGTCTTCTTGAATGTAAAC | 240 | | |
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| DB 241 | CAGAGGATACATTTCTGTTGTGTGTGTACAGACCCTTCAAAAAATCACACCCTCTGCT | 300 | | |
| QY 301 | GTTGAGGTGCAATCAGCCATTAAGATGAACAAGAACCGGATCAACAATGCTCTTCTTA | 360 | | |
| DB 301 | GTTGAGGTGCAATCAGCCATTAAGATGAACAAGAACCGGATCAACAATGCTCTTCTTA | 360 | | |
| QY 361 | AATGACCAAACTCTGGAATTTTAAAAATCCCTCCACACTTGCAACCAACCAATGAAACCA | 420 | | |
| DB 361 | AATGACCAAACTCTGGAATTTTAAAAATCCCTCCACACTTGCAACCAACCAATGAAACCA | 420 | | |
| QY 421 | TCTGTGCCACTCTGATTAATATATTTGTGTGATATTTTGCATCATCATAGTTGCAATT | 480 | | |
| DB 421 | TCTGTGCCACTCTGATTAATATATTTGTGTGATATTTTGCATCATCATAGTTGCAATT | 480 | | |
| QY 481 | GCACTACTGATTTTATCAGGGATCTGGCAACGTAGAGAAAGAACAAAGACCATCTGAA | 540 | | |
| DB 481 | GCACTACTGATTTTATCAGGGATCTGGCAACGTAGAGAAAGAACAAAGACCATCTGAA | 540 | | |
| QY 541 | GTCGATGACGCTGAGATAGTGTGAAAAATCATGATCACAAATGAAAAATGGCATCCCTCT | 600 | | |
| DB 541 | GTCGATGACGCTGAGATAGTGTGAAAAATCATGATCACAAATGAAAAATGGCATCCCTCT | 600 | | |
| QY 601 | GATCCCTCTGACATGAGGGGGGACATATTAATGATGCTTTCATGACAGAGATGAGAGGC | 660 | | |
| DB 601 | GATCCCTCTGACATGAGGGGGGACATATTAATGATGCTTTCATGACAGAGATGAGAGGC | 660 | | |

QY 661 TCACCCCTCTGAGAGGCTGTGTTCTCTCTCAAGAAATTAAACATTTGTTCTGT 720
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RESULT 3
AX464348 1346 bp DNA linear PAT 16-JUL-2002
LOCUS AX464348
DEFINITION Sequence 481 from Patent WO0140466.
ACCESSION AX464348
VERSION AX464348.1 GI:21899190
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 Baker, K.P., Beresini, M., DeForge, L., Desnoyers, L., Filvaroff, E.,
AUTHORS Gao, W.Q., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L.,
Sherwood, S., Smith, V., Stewart, T.A., Tumas, D., Watanabe, C.K.,
Wood, W.L. and Zhang, Z.
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same
JOURNAL Patent: WO 0140466-A 481 07-JUN-2001;
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ORIGIN /db_xref="taxon:9606"
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QY 301 GTTGAAGTGAATCAGCAATGAAGTGAAGACCGATCAACATGCTCTTCTA 360
DB 301 GTTGAAGTGAATCAGCAATGAAGTGAAGACCGATCAACATGCTCTTCTA 360
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DB 361 AATGACCAACTCTGAATTTTAAATCCCTCCACACTGCAACCAAGGACCA 420
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RESULT 6
LOCUS BC050606 1377 bp mRNA linear PRI 12-NOV-2003
DEFINITION Homo sapiens kidney-specific membrane protein, mRNA (cDNA clone
ACCESSION BC050606
VERSION BC050606.1 GI:30047080

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KEYWORDS

SOURCE

MGC.
Homo sapiens (human)

ORGANISM

Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE

1 (bases 1 to 1377)
Strausberg, R.L., Peltingold, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
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Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, P.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Scheetz, T.B., Brownstein, M.J., Utsdin, T.B., Toshiyuki, S.,
Carninci, P., Prange, C., Kaha, S.S., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Muzny, D.M., Sodergren, B.J., Lu, X., Gibbs, R.A.,
McKernan, R.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hult, S.W.,
Villalón, D.K., Muzny, D.M., Sodergren, B.J., Lu, X., Gibbs, R.A.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,
Bouffard, G.G., Blakeley, R.W., Touchman, J.W., Green, B.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.B.,
Scherer, A., Schein, J.B., Jones, S.J., and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

TITLE

JOURNAL

2 (bases 1 to 1377)
Strausberg, R.
Direct Submission
Submitted (08-APR-2003) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA

MEDLINE

22388257
12477932

PUBMED

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Strausberg, R.
Direct Submission
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Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
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AUTHORS

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JOURNAL

2 (bases 1 to 1377)
Strausberg, R.
Direct Submission
Submitted (08-APR-2003) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA

REMARK

COMMENT

NIH-MGC Project URL: <http://mgc.ncl.nih.gov>
Contact: MGC help desk
Email: cgabs-rc@mail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: <http://www-sbnc.stanford.edu>
Contact: (Dickson, Mark) mcd@paxil.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,
R. M.

FEATURES

source

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
Series: IRAC Plate: 110 Row: C Column: 4
This clone was selected for full length sequencing because it
passed the following selection criteria: matched mRNA gi: 21361864.
Location/Qualifiers
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LPLP

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ORIGIN

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| | | | | Gaps 1; |

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[illegible]

RESULT 7
BC015099

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|------------|---|---------|------|--------|-----------------|
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| DEFINITION | Homo sapiens kidney-specific membrane protein, mRNA (cDNA clone | | | | |

MGCG:22827 IMAGE:3829035), complete cds.
ACCESSION BC015099

VERSION BC015099.1 GI:15929328
KEYWORDS MGC.

| | | |
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| SOURCE | Homo sapiens | (human) |
| ORGANISM | Homo sapiens | |

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE AUTHORS

Klausner, R.D., Collins, F.S., Wagner, L., Shemmen, C.M., Schuler, G.D.,
Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,

Hopkins, R. F., Jordan, H., Moore, T., Max, S. I., Wang, J., Hsieh, F.,
Diatchenko, L., Marusina, K., Farmer, A. A., Rubin, G. M., Hong, L.,

Stapleton, M., Soares, M. B., Ronaldo, M. F., Casavant, T. L.,
Scheetz, T. B., Brownstein, M. J., Usdin, T. B., Toshiyuki, S.,

Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Mulahy, S.J., Bosak, S.A., McEwan, P.J.,

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Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,

Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Helton, E., Kettelman, M., Madan, A., Rodriguez, S.,

Sanchez, A., Whiting, M., Madan, A., Young, A. C., Shevchenko, Y., Bouffard, G. G., Blakesley, R. W., Touchman, J. W., Green, B. D.,

Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.B., Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smalusz, D.E.,

TITLE Schnerch, A., Schein, J.B., Jones, S.J. and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length

human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

MEDLINE 22388257
PUBMED 12477932

REFERENCE 2 (pages 1 to 1440)
AUTHORS Strausberg, R.

TITLE Direct Submission
JOURNAL Submitted (01-OCT-2001) National Institutes of Health, Mammalian

Gene Collection (MGC), Cancer Genomics Office, National Cancer

VERSION BD205644.1 GI:33015414
KEYWORDS JP 2002533058-A/21.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 1447)
AUTHORS Ruben,S.M., Florence,K., Ni,J., Rosen,C.A., Carter,K.C.,
Moore,P.A., Olsen,H.S., Shi,Y., Young,P.R., Wei,F.F., Brewer,L.A.,
Soppet,D.R., Lafleur,D.W., Endress,G.A. and Ebner,R.
97 human secreted proteins
Patent: JP 2002533058-A 21 08-OCT-2002;
JOURNAL HUMAN GENOME SCIENCES INC
COMMENT OS Homo sapiens (human)
PN JP 2002533058-A/21
PD 08-OCT-2002
PF 06-MAY-1999 JP 2000548451
PR 12-MAY-1998 US 60/085093,12-MAY-1998 US 60/085094 PR
12-MAY-1998 US 60/085105,12-MAY-1998 US 60/085180 PR
18-MAY-1998 US 60/085927,18-MAY-1998 US 60/085906 PR
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18-MAY-1998 US 60/085925,18-MAY-1998 US 60/085928 PR
18-MAY-1998 US 60/085920
PI STEVEN M RUBEN,KIMBERLY FLORENCE,JIAN NI,CRAIG A ROSEN,KENNETH
PI C CARTER,
PI PAUL A MOORE,HENRIK S OLSEN,YANGGU SHI,PAUL B YOUNG,FING FBI
PI WEI,
PI LAURIE A BREWER,DANIEL R SOPPET,DAVID W LAFLEUR,GREGORY A PI
ENDRESS,
PI REINHARD EBNER
PC C12N15/09,C07K14/00,C07K14/435,C07K16/18,C12N1/15,C12N1/19, PC
C12N1/21,
PC C12N5/10,C12P21/02,C12N15/00,C12N5/00
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BD083420
LOCUS BD083420 1401 bp DNA linear PAT 27-AUG-2002

DEFINITION Secreted proteins and polynucleotides encoding them.
ACCESSION BD083420
VERSION BD083420.1 GI:22629030
KEYWORDS JP 2001523950-A/2.
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 (bases 1 to 1401)
AUTHORS Jacobs,K., McCoy,J.M., Lavallie,E.R., Racie,L.A., Merberg,D.,
Treacy,M., Spaulding,V. and Agostino,M.J.
TITLE Secreted proteins and polynucleotides encoding them
JOURNAL Patent: JP 2001523950-A 2 27-NOV-2001;
GENETICS INSTITUTE INC
COMMENT PN JP 2001523950-A/2
PD 27-NOV-2001
PR 23-JAN-1998 JP 1998532177
PR 24-JAN-1997 US 08/788789
PI KENNETH JACOBS,JOHN M MCCOY,EDWARD R LAVALLIE,LISA A RACIB,PI
DAVID MERBERG,
PI MAURICE TREACY,VIKKI SPAULDING,MICHAEL J AGOSTINO PC
C12N15/12,C12N5/10,C07K14/47,C12Q1/68,A61K38/17 CC Strandedness:
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Best Local Similarity 99.8%; Pred. No.1.9e-261;
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LOCUS AX083392 1347 bp DNA linear PAT 28-FEB-2001
DEFINITION Sequence 84 from Patent WO0112660.
AX083392
VERSION AX083392.1 GI:13185232
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Kato,S. and Kimura,T.
AUTHORS Human proteins having hydrophobic domains and dnas encoding these
TITLE proteins
JOURNAL Patent: WO 0112660-A 84 22-FEB-2001;
SAGAMI CHEMICAL RESEARCH CENTER (JP) ; Protegene Inc. (JP)
FEATURES Location/Qualifiers


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ORIGIN

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| | | | | | | | |
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| | | | | | | | |
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| Db | 78 | CCAGGTGCAGAAAATGCTTTTAAAGTGA | CTTAGTATCAGAA | CAGCTCTGGAGATMAA | 137 | | |
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| Oy | 121 | GCATATGCTCTGGGTA | CCAATGAGAA | TACCTCTTCAAGCGATGGTAGCTTCTCCATG | 180 | | |
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| Db | 138 | GCATATGCTCTGGGTA | CCAATGAGAA | TACCTCTTCAAGCGATGGTAGCTTCTCCATG | 197 | | |
| | | | | | | | |
| Oy | 181 | AGAAAAGTTC | CCACAGAGAAC | CAGAAATTTCCATGTCTCTACTTTGCAATGTAACC | 240 | | |
| | | | | | | | |
| Db | 198 | AGAAAAGTTC | CCACAGAGAAC | CAGAAATTTCCATGTCTCTACTTTGCAATGTAACC | 257 | | |
| | | | | | | | |
| Oy | 241 | CAGAGGATATCATTTCTGTTTGTTGTTA | CAGACCCTTCAAAAAATCA | CACCCTTCTGCT | 300 | | |
| | | | | | | | |
| Db | 258 | CAGAGGATATCATTTCTGTTTGTTGTTA | CAGACCCTTCAAAAAATCA | CACCCTTCTGCT | 317 | | |
| | | | | | | | |
| Oy | 301 | GTTGAGTGCATCAGCCATAGAA | TGAACAAGAACCGATCAA | CATGCCCTTCTTCTA | 360 | | |
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| Db | 318 | GTTGAGTGCATCAGCCATAGAA | TGAACAAGAACCGATCAA | CATGCCCTTCTTCTA | 377 | | |
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| | | | | | | | |
| Oy | 421 | TCTGTGCCCATCTGATAT | TATATTGTTGTTGATATTTTGATCAT | CATAGTGCAT | 480 | | |
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| Db | 438 | TCTGTGCCCATCTGATAT | TATATTGTTGTTGATATTTTGATCAT | CATAGTGCAT | 497 | | |
| | | | | | | | |
| Oy | 481 | GCAC | TACTGATTTTATCAGGGATCTGGCA | ACGTAGA | GAAAGAACAAAGAACCATCTGAA | 540 | |
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| Db | 498 | GCAC | TACTGATTTTATCAGGGATCTGGCA | ACGTAGA | GAAAGAACAAAGAACCATCTGAA | 557 | |
| | | | | | | | |
| Oy | 541 | GTCGATGACGCTGAAGAT | TAAGTGTGA | AAACATGATCA | CAATTGAA | AAATGGCATCCCTCT | 600 |
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| Db | 558 | GTCGATGACGCTGAAGAT | TAAGTGTGA | AAACATGATCA | CAATTGAA | AAATGGCATCCCTCT | 617 |
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| Oy | 601 | GATCCCTCGACATGAAGGG | -GGGCATATTAATGATG | CCCTTCATGA | CAGAGATGAAGG | 659 | |
| | | | | | | | |
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| Oy | 720 | TGTACTGCTGAGCATCTGA | AATACCAAGACAGATCA | TATATTTGTTTCA | CCATCT | 779 | |
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| Oy | 780 | TCCTTTGTAAATAAATTTTGAATGTGCTTGAAAGTGAAAAAGCAATCAATATTAACCAACCA | 839 |
| Db | 798 | TCCTTTGTAAATAAATTTTGAATGTGCTTGAAAGTGAAAAAGCAATCAATATTAACCAACCA | 857 |
| Oy | 840 | CACCACTGAAATCATAAAGCTAATTCACGACTCAAAATATTTCTAAATATTTTCTGACAGT | 899 |
| Db | 858 | CACCACTGAAATCATAAAGCTAATTCACGACTCAAAATATTTCTAAATATTTTCTGACAGT | 917 |
| Oy | 900 | ATAGTGATAAATGTGCTCATGTGTAATTTGTAGTATTTGATTAAAGCATTTTTCAGAAAT | 959 |
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| Db | 1218 | AGTGATTATATATTTTCTGAATATCAGCCCTAATAGAGACAATTTCTATTGTGACCAT | 1277 |
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| Db | 1338 | TGA 1340 | |

| RESULT 12 | BD135300 | LOCUS | DEFINITION | ACCESSION | VERSION | KEYWORDS | SOURCE | ORGANISM | REFERENCE | AUTHORS | TITLE | JOURNAL | COMMENT |
|-----------|----------|---------|-------------------------------|-----------|------------|-------------|---------------------|---|-----------|---------|-------|---------|---------|
| | BD135300 | 1356 bp | 110 human secretory proteins. | BD135300 | BD135300.1 | GI:23230245 | JP 2002508167-A/51. | Homo sapiens (human) | | | | | |
| | | | | | | | | Homo sapiens | | | | | |
| | | | | | | | | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. | | | | | |
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| | | | | | | | | Moore, P.A., Ruben, S.M., Carter, K.C., Shi, Y., Rosen, C.A., Soppet, D.R., Caou, H., Wei, Y.F., Florence, K., Duan, R.D., Florence, C., Greene, J.M., Feng, P., Ferrie, A.M., Yu, G.L., Janat, F. and Ni, J. | | | | | |
| | | | | | | | | 110 human secretory proteins | | | | | |
| | | | | | | | | Patent: JP 2002508167-A 51 19-MAR-2002; | | | | | |
| | | | | | | | | HUMAN GENOM SCIENTES INC | | | | | |
| | | | | | | | | OS Homo sapiens (human) | | | | | |
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PI PAUL A MOORE, STEVEN M RUBEN, KENNETH C CARTER, YANGGU SHI, CRAIG
PI A ROSEN,
PI DANIEL R SOPPET, HARA CAOU, YING FEI WEI, KIMBERLY FLORENCE, PI
PI ROSANNE D DUAN,
PI CHARLES FLORENCE, JOHN M GREENE, PING FENG, ANN M FERRIE, GUO PI
LIANG YU,
PI FORD JANAT, JIAN NI
PC C12N15/09, A61K38/00, A61K48/00, A61P9/00, A61P9/10, A61P15/00, PC
A61P25/00,
PC A61P25/02, A61P25/14, A61P25/16, A61P25/18, A61P25/22, A61P25/24,
PC A61P25/28,
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| QY | 1 | GAAAGAATGTTGTGGCTCTTTTCTGTGACTGCATTCATGCTGAACCTCTGTAA | 60 |
| Db | 12 | GAAAGAATGTTGTGGCTCTTTTCTGTGACTGCATTCATGCTGAACCTCTGTAA | 71 |
| QY | 61 | CCAGGTGCAGAAAAATGCTTTTAAAGTGAAGCTTAGTATCAGAACAGCTCTGGAGATAAA | 120 |
| Db | 72 | CCAGGTGCAGAAAAATGCTTTTAAAGTGAAGCTTAGTATCAGAACAGCTCTGGAGATAAA | 131 |
| QY | 121 | GCATATGCCCTGGGATACCAATGAAGATACTCTTCAAAGCGATGTAGCTTCTCCATG | 180 |
| Db | 132 | GCATATGCCCTGGGATACCAATGAAGATACTCTTCAAAGCGATGTAGCTTCTCCATG | 191 |
| QY | 181 | AGAAAAAGTTCCTCAACAGAGAAGCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAAAC | 240 |
| Db | 192 | AGAAAAAGTTCCTCAACAGAGAAGCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAAAC | 251 |
| QY | 241 | CAGAGGATATCATTTCTGTGTTGTGTATACAGACCCCTTCAA AAAATCACACCCCTCTGTCT | 300 |
| Db | 252 | CAGA-GSTATCATTTCTGTGTTGTGTATACAGACCCCTTCAA AAAATCACACCCCTCTGTCT | 310 |
| QY | 301 | GTTGAGGTGCAATCAGCCATAAGATGAACAAGAACCGGATCAACAATGCTTCTTTCTA | 360 |
| Db | 311 | GTTGAGGTGCAATCAGCCATAAGATGAACAAGAACCGGATCAACAATGCTTCTTTCTA | 370 |
| QY | 361 | AATGACCAAACTCTGGAATTTTAAABAATCCCTTCCACACTTGCAACCAACCATGGAACCA | 420 |
| Db | 371 | AATGACCAAACTCTGGAATTTTAAABAATCCCTTCCACACTTGCAACCAACCATGGAACCA | 430 |
| QY | 421 | TCTGTGCCCATCTGGAATATTATATTGTGTGATATTTTGCATCATCATAGTTGCAATT | 480 |
| Db | 431 | TCTGTGCCCATCTGGAATATTATATTGTGTGATATTTTGCATCATCATAGTTGCAATT | 490 |
| QY | 481 | GCACTACTGATTTTATCAAGGATCTGGCAACGTAGAAGAAAGAACAAAGAACCATCTGAA | 540 |
| Db | 491 | GCACTACTGATTTTATCAAGGATCTGGCAACGTAGAAGAAAGAACAAAGAACCATCTGAA | 550 |
| QY | 541 | GTTGATGAACGCTGAAGATTAAGTGTGA AAAACATGATCACAATTGAAAATGSCATCCCTCT | 600 |
| Db | 551 | GTTGATGAACGCTGAAGATTAAGTGTGA AAAACATGATCACAATTGAAAATGSCATCCCTCT | 610 |
| QY | 601 | GATCCCCCTGACATGAAGGG-GGGCATATTTAATGATGCTTCATGACAGAGATGAAGG | 659 |

| | | | |
|----|------|---|------|
| Db | 611 | GATCCCCCTGACATGAAAGGAGGCGCATATTAATGATGCGCTTCATGACAGAGATGAGAGG | 670 |
| QY | 660 | CTCACCCCTCTTGAAAGGCGTGTTGTTCTGCTTCTCAAGAAATTAAACATTTGTTCTG | 719 |
| Db | 671 | CTCACCCCTCTCTGAAGGCGTGTTGTTCTGCTTCTCAAGAAATTAAACATTTGTTCTG | 730 |
| QY | 720 | TGTGACTGCTGAGCATCCGTAATACCAAGAGAGATCATATATTTGTTCCACCATCT | 779 |
| Db | 731 | TGTGACTGCTGAGCATCCGTAATACCAAGAGAGATCATATATTTGTTCCACCATCT | 790 |
| QY | 780 | TCTTTTGTATAAATTTTGAATGTGCTTGAAAGTGAAAAAGCAATCAATTATACCAACCA | 839 |
| Db | 791 | TCTTTTGTATAAATTTTGAATGTGCTTGAAAGTGAAAAAGCAATCAATTATACCAACCA | 850 |
| QY | 840 | CACCACTGAATCATAGCTATTACGACTCAAAATATTCTAAATATTTTCTGACAGT | 899 |
| Db | 851 | CACCACTGAATCATAGCTATTACGACTCAAAATATTCTAAATATTTTCTGACAGT | 910 |
| QY | 900 | ATAGTGATTAATGTGTGCTATGTGGTATTGTGATTTGATTGAATTTTGAAGT | 959 |
| Db | 911 | ATAGTGATTAATGTGTGCTATGTGGTATTGTGATTTGATTGAATTTTGAAGT | 970 |
| QY | 960 | AAGATCAGGCATATGTATATTTTTCACACTCAAGACCTAAGAAAAATAAATTTTC | 1019 |
| Db | 971 | AAGATCAGGCATATGTATATTTTTCACACTCAAGACCTAAGAAAAATAAATTTTC | 1030 |
| QY | 1020 | AGTGAGAAATACATATAATGCTGTAGAAATCATTTGAAAAATGATCCTTTTGAAGATC | 1079 |
| Db | 1031 | AGTGAGAGATACATATAATGCTGTAGAAATCATTTGAAAAATGATCCTTTTGAAGATC | 1090 |
| QY | 1080 | ACTTATATCACTCTGTATATGACTAAGTAACAAAAGTGAGAATTAATTGTAATGG | 1139 |
| Db | 1091 | ACTTATATCACTCTGTATATGACTAAGTAACAAAAGTGAGAATTAATTGTAATGG | 1150 |
| QY | 1140 | ATGATATAAAATGGAATTACTCATATACAGGGTGAATTTTATCCTGTTATCACACCAAC | 1199 |
| Db | 1151 | ATGATATAAAATGGAATTACTCATATACAGGGTGGATTTTATCCTGTTATCACACCAAC | 1210 |
| QY | 1200 | AGTTGATTAATATTTTCTGAATATACAGCCCTTAATAGGACAATTCTATTGTTGACCAT | 1259 |
| Db | 1211 | AGTTGATTAATATTTTCTGAATATACAGCCCTTAATAGGACAATTCTATTGTTGACCAT | 1270 |
| QY | 1260 | TTCTACAATTTGTAAAAGTCCAATCTGTGCTAACTTAATAAGTAATAATCATCTCTTT | 1319 |
| Db | 1271 | TTCTACAATTTGTAAAAGTCCAATCTGTGCTAACTTAATAAGTAATAATCATCCAAAAA | 1330 |
| QY | 1320 | TAAAAAATTTTGTAAAAGTCCAATCTGTGCTAACTTAATAAGTAATAATCATCTCTTT | 1345 |
| Db | 1331 | AAAAAATTTTGTAAAAGTCCAATCTGTGCTAACTTAATAAGTAATAATCATCCAAAAA | 1356 |

Search completed: June 6, 2004, 13:05:18
Job time : 5280.77 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using BW model

Run on: June 6, 2004, 07:26:44 ; Search time 544.777 Seconds
(without alignments)
10496.171 Million cell updates/sec

Title: US-09-989-724-386
Perfect score: 1346
Sequence: 1 gaagaatgttgtgtgtct.....aaaaaaaaaaaaaaaa 1346

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues
Total number of hits satisfying chosen parameters: 220

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 80%
Maximum Match 100%
Listing first 65000 summaries

Database : N_Geneseq_29Jan04: *
1: geneseqn1980s: *
2: geneseqn1990s: *
3: geneseqn2000s: *
4: geneseqn2001as: *
5: geneseqn2001bs: *
6: geneseqn2002s: *
7: geneseqn2003as: *
8: geneseqn2003bs: *
9: geneseqn2003cs: *
10: geneseqn2004s: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | length | DB ID | Description |
|------------|-------|-------------|--------|------------|--------------------|
| 1 | 1346 | 100.0 | 1346 | 3 AAZ65097 | Aaz65097 Membrane- |
| 2 | 1346 | 100.0 | 1346 | 3 AAC58612 | Aac58612 Human PRO |
| 3 | 1346 | 100.0 | 1346 | 3 AAA77680 | Aaa77680 Human PRO |
| 4 | 1346 | 100.0 | 1346 | 4 AAS21484 | Aas21484 Human PRO |
| 5 | 1346 | 100.0 | 1346 | 5 AAF44243 | Aaf44243 Human PRO |
| 6 | 1346 | 100.0 | 1346 | 7 ABX77959 | Abx77959 Human PRO |
| 7 | 1346 | 100.0 | 1346 | 7 ABX80371 | Abx80371 Human PRO |
| 8 | 1346 | 100.0 | 1346 | 7 ACA69277 | ACA69277 Human PRO |
| 9 | 1346 | 100.0 | 1346 | 7 ACD24093 | AcD24093 Novel hum |
| 10 | 1346 | 100.0 | 1346 | 7 ABX90348 | Abx90348 Human sec |
| 11 | 1346 | 100.0 | 1346 | 7 ABX64194 | Abx64194 CDNA enco |
| 12 | 1346 | 100.0 | 1346 | 7 ACA67234 | ACA67234 CDNA enco |
| 13 | 1346 | 100.0 | 1346 | 7 ACA64416 | ACA64416 Novel hum |
| 14 | 1346 | 100.0 | 1346 | 7 ACA03843 | ACA03843 CDNA enco |
| 15 | 1346 | 100.0 | 1346 | 7 ABX89381 | Abx89381 DNA enco |
| 16 | 1346 | 100.0 | 1346 | 7 ABX80875 | Abx80875 Human sec |
| 17 | 1346 | 100.0 | 1346 | 7 ACD44384 | ACD44384 CDNA enco |
| 18 | 1346 | 100.0 | 1346 | 7 ACD42035 | ACD42035 Human sec |
| 19 | 1346 | 100.0 | 1346 | 7 ABX79555 | Abx79555 Human sec |
| 20 | 1346 | 100.0 | 1346 | 7 ACA93576 | ACA93576 Novel hum |
| 21 | 1346 | 100.0 | 1346 | 7 ABX81258 | Abx81258 Novel hum |
| 22 | 1346 | 100.0 | 1346 | 7 ACA04264 | ACA04264 Human CDN |
| 23 | 1346 | 100.0 | 1346 | 7 ACA93074 | ACA93074 Novel hum |

| | | | | | |
|----|------|-------|------|------------|--------------------|
| 24 | 1346 | 100.0 | 1346 | 7 ABX17158 | Abx17158 Human PRO |
| 25 | 1346 | 100.0 | 1346 | 8 ACA68013 | Aca68013 Novel hum |
| 26 | 1346 | 100.0 | 1346 | 8 ACA88462 | Aca88462 Human sec |
| 27 | 1346 | 100.0 | 1346 | 8 ACD81969 | ACD81969 CDNA enco |
| 28 | 1346 | 100.0 | 1346 | 8 ADA46000 | Ada46000 Novel hum |
| 29 | 1346 | 100.0 | 1346 | 8 ADA76431 | Ada76431 Human PRO |
| 30 | 1346 | 100.0 | 1346 | 8 ADA19081 | Ada19081 Human PRO |
| 31 | 1346 | 100.0 | 1346 | 8 ADA61704 | Ada61704 Homo sapi |
| 32 | 1346 | 100.0 | 1346 | 8 ADB19489 | Adb19489 Novel hum |
| 33 | 1346 | 100.0 | 1346 | 8 ADB28030 | Adb28030 CDNA enco |
| 34 | 1346 | 100.0 | 1346 | 8 ADA86509 | Ada86509 Novel hum |
| 35 | 1346 | 100.0 | 1346 | 8 ADB16073 | Adb16073 Human PRO |
| 36 | 1346 | 100.0 | 1346 | 8 ADA37897 | Ada37897 Human CDN |
| 37 | 1346 | 100.0 | 1346 | 8 ADA47859 | Ada47859 Human PRO |
| 38 | 1346 | 100.0 | 1346 | 8 ADA21583 | Ada21583 Human CDN |
| 39 | 1346 | 100.0 | 1346 | 8 ADA10370 | Ada10370 Human CDN |
| 40 | 1346 | 100.0 | 1346 | 8 ADA67654 | Ada67654 Human PRO |
| 41 | 1346 | 100.0 | 1346 | 8 ADB30661 | Adb30661 CDNA enco |
| 42 | 1346 | 100.0 | 1346 | 8 ADA85957 | Ada85957 Novel hum |
| 43 | 1346 | 100.0 | 1346 | 8 ADA17914 | Ada17914 CDNA enco |
| 44 | 1346 | 100.0 | 1346 | 8 ADA97169 | Ada97169 Human PRO |
| 45 | 1346 | 100.0 | 1346 | 8 ADA79473 | Ada79473 Human PRO |
| 46 | 1346 | 100.0 | 1346 | 8 ADA87612 | Ada87612 Novel hum |
| 47 | 1346 | 100.0 | 1346 | 8 ADB16814 | Adb16814 Human PRO |
| 48 | 1346 | 100.0 | 1346 | 8 ADA28022 | Ada28022 Human CDN |
| 49 | 1346 | 100.0 | 1346 | 8 ADA91906 | Ada91906 Novel hum |
| 50 | 1346 | 100.0 | 1346 | 8 ADB14969 | Adb14969 Human PRO |
| 51 | 1346 | 100.0 | 1346 | 8 ADB18930 | Adb18930 Novel hum |
| 52 | 1346 | 100.0 | 1346 | 8 ADA94145 | Ada94145 Human PRO |
| 53 | 1346 | 100.0 | 1346 | 8 ADB20041 | Adb20041 Novel hum |
| 54 | 1346 | 100.0 | 1346 | 8 ADB13353 | Adb13353 Human PRO |
| 55 | 1346 | 100.0 | 1346 | 8 ACD98664 | ACD98664 Novel hum |
| 56 | 1346 | 100.0 | 1346 | 8 ADA94602 | Ada94602 Human CDN |
| 57 | 1346 | 100.0 | 1346 | 8 ADA74607 | Ada74607 Human PRO |
| 58 | 1346 | 100.0 | 1346 | 8 ADB24840 | Adb24840 Human PRO |
| 59 | 1346 | 100.0 | 1346 | 8 ADA82364 | Ada82364 Human PRO |
| 60 | 1346 | 100.0 | 1346 | 8 ADA75327 | Ada75327 Human PRO |
| 61 | 1346 | 100.0 | 1346 | 8 ADA85405 | Ada85405 Novel hum |
| 62 | 1346 | 100.0 | 1346 | 8 ADA84853 | Ada84853 Novel hum |
| 63 | 1346 | 100.0 | 1346 | 8 ADB30109 | Adb30109 CDNA enco |
| 64 | 1346 | 100.0 | 1346 | 8 ADA80637 | Ada80637 Human PRO |
| 65 | 1346 | 100.0 | 1346 | 8 ADA75879 | Ada75879 Human PRO |
| 66 | 1346 | 100.0 | 1346 | 8 ADA38827 | Ada38827 Human CDN |
| 67 | 1346 | 100.0 | 1346 | 8 ADA47104 | Ada47104 Human PRO |
| 68 | 1346 | 100.0 | 1346 | 8 ADB25400 | Adb25400 Human PRO |
| 69 | 1346 | 100.0 | 1346 | 8 ADA93576 | Ada93576 Human PRO |
| 70 | 1346 | 100.0 | 1346 | 8 ADB26926 | Adb26926 CDNA enco |
| 71 | 1346 | 100.0 | 1346 | 8 ADB31213 | Adb31213 CDNA enco |
| 72 | 1346 | 100.0 | 1346 | 8 ADA92948 | Ada92948 Human CDN |
| 73 | 1346 | 100.0 | 1346 | 8 ADA61141 | Ada61141 Homo sapi |
| 74 | 1346 | 100.0 | 1346 | 8 ADB24288 | Adb24288 Human PRO |
| 75 | 1346 | 100.0 | 1346 | 8 ADA96617 | Ada96617 Human PRO |
| 76 | 1346 | 100.0 | 1346 | 8 ADA81189 | Ada81189 Human PRO |
| 77 | 1346 | 100.0 | 1346 | 8 ADA96065 | Ada96065 Human PRO |
| 78 | 1346 | 100.0 | 1346 | 8 ADB26374 | Adb26374 CDNA enco |
| 79 | 1346 | 100.0 | 1346 | 8 ADB21859 | Adb21859 Novel hum |
| 80 | 1346 | 100.0 | 1346 | 8 ADA77638 | Ada77638 Human PRO |
| 81 | 1346 | 100.0 | 1346 | 8 ADB18378 | Adb18378 CDNA enco |
| 82 | 1346 | 100.0 | 1346 | 8 ADA87061 | Ada87061 Novel hum |
| 83 | 1346 | 100.0 | 1346 | 8 ADA88164 | Ada88164 Novel hum |
| 84 | 1346 | 100.0 | 1346 | 8 ADA46552 | Ada46552 Novel hum |
| 85 | 1346 | 100.0 | 1346 | 8 ADB28582 | Adb28582 CDNA enco |
| 86 | 1346 | 100.0 | 1346 | 8 ADB29134 | Adb29134 CDNA enco |
| 87 | 1346 | 100.0 | 1346 | 8 ACH65530 | Ach65530 Human CDN |
| 88 | 1346 | 100.0 | 1346 | 8 ADA77086 | Ada77086 Human PRO |
| 89 | 1346 | 100.0 | 1346 | 8 ADA22509 | Ada22509 Human CDN |
| 90 | 1346 | 100.0 | 1346 | 8 ADA87716 | Ada87716 Novel hum |
| 91 | 1346 | 100.0 | 1346 | 8 ADA97721 | Ada97721 Human PRO |
| 92 | 1346 | 100.0 | 1346 | 8 ADB22411 | Adb22411 Novel hum |
| 93 | 1346 | 100.0 | 1346 | 8 ACD39520 | ACD39520 Human sec |
| 94 | 1346 | 100.0 | 1346 | 8 ADA06675 | Ada06675 Human sec |
| 95 | 1346 | 100.0 | 1346 | 8 ADA39368 | Ada39368 Human CDN |
| 96 | 1346 | 100.0 | 1346 | 8 | |

| | | | | | | | | |
|-----|------|-------|------|---|----------|----------|-------|------|
| 97 | 1346 | 100.0 | 1346 | 8 | ADA67102 | Ada67102 | Human | PRO |
| 98 | 1346 | 100.0 | 1346 | 8 | ADB22963 | Adb22963 | Human | PRO |
| 99 | 1346 | 100.0 | 1346 | 8 | ADB23736 | Adb23736 | Human | PRO |
| 100 | 1346 | 100.0 | 1346 | 8 | ADA92458 | Ada92458 | Novel | hum |
| 101 | 1346 | 100.0 | 1346 | 8 | ADB15521 | Adb15521 | Human | PRO |
| 102 | 1346 | 100.0 | 1346 | 8 | ADB38773 | Adb38773 | Novel | hum |
| 103 | 1346 | 100.0 | 1346 | 8 | ADB96394 | Adb96394 | Human | PRO |
| 104 | 1346 | 100.0 | 1346 | 8 | ADB38221 | Adb38221 | Novel | hum |
| 105 | 1346 | 100.0 | 1346 | 9 | ADB66693 | Adb66693 | Novel | hum |
| 106 | 1346 | 100.0 | 1346 | 9 | ADB89773 | Adb89773 | Human | PRO |
| 107 | 1346 | 100.0 | 1346 | 9 | ADB90505 | Adb90505 | Human | PRO |
| 108 | 1346 | 100.0 | 1346 | 9 | ADB39606 | Adb39606 | Novel | hum |
| 109 | 1346 | 100.0 | 1346 | 9 | ADB47229 | Adb47229 | Novel | hum |
| 110 | 1346 | 100.0 | 1346 | 9 | ADB86836 | Adb86836 | Human | PRO |
| 111 | 1346 | 100.0 | 1346 | 9 | ADB77441 | Adb77441 | Novel | hum |
| 112 | 1346 | 100.0 | 1346 | 9 | ADB34598 | Adb34598 | Human | PRO |
| 113 | 1346 | 100.0 | 1346 | 9 | ADB35702 | Adb35702 | Human | PRO |
| 114 | 1346 | 100.0 | 1346 | 9 | ADB34046 | Adb34046 | Human | PRO |
| 115 | 1346 | 100.0 | 1346 | 9 | ADB35150 | Adb35150 | Human | PRO |
| 116 | 1346 | 100.0 | 1346 | 9 | ADB36254 | Adb36254 | Human | PRO |
| 117 | 1346 | 100.0 | 1346 | 9 | ADB46649 | Adb46649 | Novel | hum |
| 118 | 1346 | 100.0 | 1346 | 9 | ADC57866 | Adc57866 | Human | PRO |
| 119 | 1346 | 100.0 | 1346 | 9 | ADC55230 | Adc55230 | Human | PRO |
| 120 | 1346 | 100.0 | 1346 | 9 | ADC12097 | Adc12097 | Human | CDN |
| 121 | 1346 | 100.0 | 1346 | 9 | ADC56519 | Adc56519 | Human | PRO |
| 122 | 1346 | 100.0 | 1346 | 9 | ADC07574 | Adc07574 | Human | CDN |
| 123 | 1346 | 100.0 | 1346 | 9 | ADC11564 | Adc11564 | Human | CDN |
| 124 | 1346 | 100.0 | 1346 | 9 | ADC50522 | Adc50522 | Novel | hum |
| 125 | 1346 | 100.0 | 1346 | 9 | ADC72069 | Adc72069 | Novel | hum |
| 126 | 1346 | 100.0 | 1346 | 9 | ADC60048 | Adc60048 | Novel | hum |
| 127 | 1346 | 100.0 | 1346 | 9 | ADC53055 | Adc53055 | Novel | hum |
| 128 | 1346 | 100.0 | 1346 | 9 | ADC57409 | Adc57409 | Novel | hum |
| 129 | 1346 | 100.0 | 1346 | 9 | ADC60600 | Adc60600 | Novel | hum |
| 130 | 1346 | 100.0 | 1346 | 9 | ADC51075 | Adc51075 | Novel | hum |
| 131 | 1346 | 100.0 | 1346 | 9 | ADC65602 | Adc65602 | Human | PRO |
| 132 | 1346 | 100.0 | 1346 | 9 | ADC54700 | Adc54700 | Novel | hum |
| 133 | 1346 | 100.0 | 1346 | 9 | ADC53661 | Adc53661 | Novel | hum |
| 134 | 1346 | 100.0 | 1346 | 9 | ADC59184 | Adc59184 | Novel | hum |
| 135 | 1346 | 100.0 | 1346 | 9 | ADC56062 | Adc56062 | Novel | hum |
| 136 | 1346 | 100.0 | 1346 | 9 | ADC58632 | Adc58632 | Novel | hum |
| 137 | 1346 | 100.0 | 1346 | 9 | ADC14686 | Adc14686 | Novel | hum |
| 138 | 1346 | 100.0 | 1346 | 9 | ADD08218 | Add08218 | Novel | hum |
| 139 | 1346 | 100.0 | 1346 | 9 | ADD03306 | Add03306 | Novel | hum |
| 140 | 1346 | 100.0 | 1346 | 9 | ADC90298 | Adc90298 | Novel | hum |
| 141 | 1346 | 100.0 | 1346 | 9 | ADC82043 | Adc82043 | Human | PRO |
| 142 | 1346 | 100.0 | 1346 | 9 | ADC69717 | Adc69717 | CDNA | enco |
| 143 | 1346 | 100.0 | 1346 | 9 | ADC48606 | Adc48606 | Human | PRO |
| 144 | 1346 | 100.0 | 1346 | 9 | ADD10135 | Add10135 | Human | PRO |
| 145 | 1346 | 100.0 | 1346 | 9 | ADD07685 | Add07685 | Novel | hum |
| 146 | 1346 | 100.0 | 1346 | 9 | ADD04710 | Add04710 | Novel | hum |
| 147 | 1346 | 100.0 | 1346 | 9 | ADC82576 | Adc82576 | Human | PRO |
| 148 | 1346 | 100.0 | 1346 | 9 | ADC80666 | Adc80666 | Novel | hum |
| 149 | 1346 | 100.0 | 1346 | 9 | ADD11173 | Add11173 | Human | PRO |
| 150 | 1346 | 100.0 | 1346 | 9 | ADC48054 | Adc48054 | Human | PRO |
| 151 | 1346 | 100.0 | 1346 | 9 | ADD08756 | Add08756 | Novel | hum |
| 152 | 1346 | 100.0 | 1346 | 9 | ADC80114 | Adc80114 | Novel | hum |
| 153 | 1346 | 100.0 | 1346 | 9 | ADD07005 | Add07005 | Novel | hum |
| 154 | 1346 | 100.0 | 1346 | 9 | ADD09583 | Add09583 | Human | PRO |
| 155 | 1346 | 100.0 | 1346 | 9 | ADC83252 | Adc83252 | Human | PRO |
| 156 | 1346 | 100.0 | 1346 | 9 | ADD41296 | Add41296 | Novel | hum |
| 157 | 1346 | 100.0 | 1346 | 9 | ADD52435 | Add52435 | CDNA | enco |
| 158 | 1346 | 100.0 | 1346 | 9 | ADD53175 | Add53175 | CDNA | enco |
| 159 | 1346 | 100.0 | 1346 | 9 | ADD53727 | Add53727 | Novel | hum |
| 160 | 1346 | 100.0 | 1346 | 9 | ADD53559 | Add53559 | Human | PRO |
| 161 | 1346 | 100.0 | 1346 | 9 | ADD56317 | Add56317 | Human | PRO |
| 162 | 1346 | 100.0 | 1346 | 9 | ADD51883 | Add51883 | CDNA | enco |
| 163 | 1346 | 100.0 | 1346 | 9 | ADD02682 | Add02682 | Human | PRO |
| 164 | 1346 | 100.0 | 1346 | 9 | ADD02116 | Add02116 | Human | PRO |
| 165 | 1346 | 100.0 | 1346 | 9 | ADD54298 | Add54298 | Novel | hum |
| 166 | 1346 | 100.0 | 1346 | 9 | ADD54755 | Add54755 | Human | PRO |
| 167 | 1346 | 100.0 | 1346 | 9 | ADD92615 | Add92615 | Human | PRO |
| 168 | 1346 | 100.0 | 1346 | 9 | ADD91511 | Add91511 | Human | PRO |
| 169 | 1346 | 100.0 | 1346 | 9 | ADE04125 | Adc04125 | Human | PRO |

| | | | | | | | | |
|-----|--------|-------|------|----|-----------|-----------|-----------|------|
| 170 | 1346 | 100.0 | 1346 | 9 | ADB26909 | Adé26909 | Novel | hum |
| 171 | 1346 | 100.0 | 1346 | 9 | ADB32422 | Adé32422 | Novel | hum |
| 172 | 1346 | 100.0 | 1346 | 9 | ADB22354 | Adé22354 | CDNA | enco |
| 173 | 1346 | 100.0 | 1346 | 9 | ADD79578 | Adé79578 | CDNA | enco |
| 174 | 1346 | 100.0 | 1346 | 9 | ADB42114 | Adé42114 | Human | PRO |
| 175 | 1346 | 100.0 | 1346 | 9 | ADB17931 | Adel17931 | Human | PRO |
| 176 | 1346 | 100.0 | 1346 | 9 | ADD92063 | Adde92063 | Human | PRO |
| 177 | 1346 | 100.0 | 1346 | 9 | ADB33526 | Adé33526 | Novel | hum |
| 178 | 1346 | 100.0 | 1346 | 9 | ADB34078 | Adé34078 | Novel | hum |
| 179 | 1346 | 100.0 | 1346 | 9 | ADB0130 | Adde0130 | CDNA | enco |
| 180 | 1346 | 100.0 | 1346 | 9 | ADD93167 | Adde93167 | Human | PRO |
| 181 | 1346 | 100.0 | 1346 | 9 | ADB19587 | Adel19587 | Human | PRO |
| 182 | 1346 | 100.0 | 1346 | 9 | ADB19035 | Adel19035 | Human | PRO |
| 183 | 1346 | 100.0 | 1346 | 9 | ADB33231 | Adé43231 | Human | PRO |
| 184 | 1346 | 100.0 | 1346 | 9 | ADD96020 | Adde96020 | Human | PRO |
| 185 | 1346 | 100.0 | 1346 | 9 | ADB32906 | Adé22906 | CDNA | enco |
| 186 | 1346 | 100.0 | 1346 | 9 | ADD79024 | Adde79024 | CDNA | enco |
| 187 | 1346 | 100.0 | 1346 | 9 | ADB36376 | Adé26376 | Novel | hum |
| 188 | 1346 | 100.0 | 1346 | 9 | ADB32974 | Adé32974 | Novel | hum |
| 189 | 1346 | 100.0 | 1346 | 9 | ADB42666 | Adé42666 | Human | PRO |
| 190 | 1346 | 100.0 | 1346 | 9 | ADD80682 | Adde0682 | CDNA | enco |
| 191 | 1346 | 100.0 | 1346 | 9 | ADD89710 | Adde89710 | Human | PRO |
| 192 | 1346 | 100.0 | 1346 | 9 | ADB40994 | Adé04994 | Human | PRO |
| 193 | 1346 | 100.0 | 1346 | 9 | ADB04793 | Adé04793 | Human | PRO |
| 194 | 1346 | 100.0 | 1346 | 10 | ADC81218 | Adc81218 | Novel | hum |
| 195 | 1346 | 100.0 | 1346 | 10 | ADD76666 | Adde76666 | Human | PRO |
| 196 | 1346 | 100.0 | 1346 | 10 | ADD88030 | Adde88030 | Human | PRO |
| 197 | 1346 | 100.0 | 1346 | 10 | ADD86434 | Adde86434 | Human | PRO |
| 198 | 1346 | 100.0 | 1346 | 10 | ADB75882 | Adé75882 | Human | PRO |
| 199 | 1346 | 100.0 | 1346 | 10 | ADB23458 | Adé23458 | CDNA | enco |
| 200 | 1346 | 100.0 | 1346 | 10 | ADB24010 | Adé24010 | CDNA | enco |
| 201 | 1346 | 100.0 | 1346 | 10 | ADB24653 | Adé24653 | CDNA | enco |
| 202 | 1346 | 100.0 | 1346 | 10 | ADB87478 | Adde87478 | Human | PRO |
| 203 | 1346 | 100.0 | 1346 | 10 | ADB89344 | Adde89344 | Human | PRO |
| 204 | 1346 | 100.0 | 1346 | 10 | ADB18483 | Adel18483 | Human | PRO |
| 205 | 1346 | 100.0 | 1346 | 10 | ADB88792 | Adde8792 | Human | PRO |
| 206 | 1325.4 | 98.5 | 1432 | 7 | ADA56090 | Ada56090 | Gene | enco |
| 207 | 1325.4 | 98.5 | 1432 | 7 | ADA39900 | Ada39900 | Human | sec |
| 208 | 1325.4 | 98.5 | 1432 | 8 | ADA11489 | Ada11489 | Human | CDN |
| 209 | 1325.4 | 98.5 | 1432 | 9 | ADD37613 | Adde37613 | Human | sec |
| 210 | 1324.6 | 98.4 | 1447 | 3 | AAZ65261 | Aaz65261 | Human | sec |
| 211 | 1324.6 | 98.4 | 1447 | 3 | ADB11650 | Adel1650 | Human | sec |
| 212 | 1321.8 | 98.2 | 1401 | 2 | AAV40540 | Aav40540 | Homo sapi | |
| 213 | 1309.4 | 97.3 | 1347 | 4 | AAV94470 | Aaf94470 | Human | hyd |
| 214 | 1307.8 | 97.2 | 1345 | 7 | ABZ78127 | Abz78127 | Human | can |
| 215 | 1307.4 | 97.1 | 1365 | 4 | AAH988224 | Aah988224 | Human | EST |
| 216 | 1305 | 97.0 | 1356 | 2 | AAK97957 | Aax97957 | Human | sec |
| 217 | 1305 | 97.0 | 1356 | 7 | ADA56545 | Ada56545 | Gene | enco |
| 218 | 1305 | 97.0 | 1356 | 7 | ADA40381 | Ada40381 | Human | sec |
| 219 | 1305 | 97.0 | 1356 | 8 | ADA11594 | Ada11594 | Human | CDN |
| 220 | 1305 | 97.0 | 1356 | 9 | ADD37752 | Adde37752 | Human | sec |

ALIGNMENTS

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RESULT 1
AAZ65097
ID AAZ65097 standard; CDNA; 1346 BP.
XX
AC AAZ65097;
XX
DT 05-APR-2000 (first entry)
XX
DE Membrane-bound protein PRO1312 encoding CDNA.
XX
KW Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand;
KW pharmaceutical; receptor immunoadhesin; gene mapping; ss.
XX
OS Homo sapiens.
XX
PN WO9963088-A2.
XX
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Db      901  TAGGTATAAATGTGTCATGTGTATTTGTAGTTATGTATTAAGCATTTTGAATAA 960
QY      961  AGATCAGGCATATGTATATATTTTCACTTCAAGACCTAAGAAAAATAATTTTCCA 1020
Db      961  AGATCAGGCATATGTATATATTTTCACTTCAAGACCTAAGAAAAATAATTTTCCA 1020
QY      1021  GTGAGATATACATATATATGTGTAGAAATCATTGAATAFGATCTTTTGACGATCA 1080
Db      1021  GTGAGATATACATATATATGTGTAGAAATCATTGAATAFGATCTTTTGACGATCA 1080
QY      1081  CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAAGTAATTAATTGAATGA 1140
Db      1081  CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAAGTAATTAATTGAATGA 1140
QY      1141  TGGATTAATAATGGAATTAATCATATACAGGTGGAATTTATCTGTTATCACACCAACA 1200
Db      1141  TGGATTAATAATGGAATTAATCATATACAGGTGGAATTTATCTGTTATCACACCAACA 1200
QY      1201  GTTGAATTATATATTTTCTGAATATCAGCCCTAATAGACAATTTCTATTGTGACCAAT 1260
Db      1201  GTTGAATTATATATTTTCTGAATATCAGCCCTAATAGACAATTTCTATTGTGACCAAT 1260
QY      1261  TCTACAAATTTGTAAAGTCCCAATCTGTGCTAACTTAATAAGTAATATCATCTCTTTT 1320
Db      1261  TCTACAAATTTGTAAAGTCCCAATCTGTGCTAACTTAATAAGTAATATCATCTCTTTT 1320
QY      1321  AAAAAAAAAAAAAAAAAAAAAA 1346
Db      1321  AAAAAAAAAAAAAAAAAAAAAA 1346
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RESULT 203

ADE89344

ID ADE89344 standard; cDNA; 1346 BP.

AC ADE89344;

DT 29-JAN-2004 (first entry)

DB Human PRO polynucleotide #241.

Human; gene; ss; PRO; secreted polypeptide; transmembrane polypeptide;
tumour necrosis factor-alpha; TNF-alpha; chondrocyte cell; tumour;
cancer; adrenal; lung; colon; breast; prostate; rectum; kidney; cervix;
liver; microvascular endothelial cell; glucose; FFA;
skeletal muscle cell; adipocyte cell; pericyte cell;
inner ear utricular supporting cell; T-lymphocyte cell;
endothelial cell tube formation; bone disorder; cartilage disorder;
sports injury; proteoglycan; articular cartilage defect; osteoarthritis;
rheumatoid arthritis; haemoglobin-associated disorder thalassaemia;
immune system cell infiltration.

OS Homo sapiens.

XX US2003199062-A1.

PD 23-OCT-2003.

XX 17-APR-2002; 2002US-00124823.

PR 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 26-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.

PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 10-MAR-1999; 2000WO-US006319.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.

PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Beresini M, DeForge L, Deanoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI: 2004-041360/04.
DR P-PSDB; ADE89345.
XX
PT Novel isolated PRO polypeptide useful for treating diabetes, hyper- or
PT hypo-insulinemia, sports injuries, arthritis, obesity, stroke, heart
PT attack, various coagulation disorders, tumors.
XX
PS Claim 2; SEQ ID NO 481; 638bp; English.
XX
CC The invention relates to isolated human PRO polypeptides (secreted and
CC transmembrane polypeptides) and the polynucleotides encoding them. The
CC invention also relates to an antibody which specifically binds to a PRO
CC polypeptide, a method for stimulating the release of tumour necrosis
CC factor-alpha (TNF-alpha) from human blood, a method for stimulating the
CC proliferation or differentiation of chondrocyte cells and a method for
CC detecting the presence of a tumour in a mammal (e.g. adrenal, lung,
CC colon, breast, prostate, rectal, kidney, cervical and liver tumours). The
CC polynucleotides are useful in molecular biology, including uses as
CC hybridisation probes, in chromosome and gene mapping, in generating
CC antisense RNA and DNA and in gene therapy. The polynucleotides may also
CC be used in preparing PRO polypeptides by recombinant techniques and in
CC generating either transgenic animals or knock-out animals which are
CC useful in the development and screening of therapeutically useful
CC reagents. The PRO polypeptides or antibodies are used in preparing a
CC medicament for treating a condition responsive to the polypeptides or
CC antibodies, such as tumours, for stimulating and inhibiting proliferation
CC of human microvascular endothelial cells, for modulating the uptake of
CC glucose or FFA by skeletal muscle cells or adipocyte cells, for
CC stimulating differentiation of adipocyte cells, for stimulating
CC proliferation of or gene expression in pericyte cells, for stimulating
CC the proliferation of inner ear utricular supporting cells or T-lymphocyte
CC cells, for inducing endothelial cell tube formation and for treating
CC various bone and/or cartilage disorders such as sports injuries and
CC arthritis. PRO polypeptides which stimulate the release of proteoglycans
CC from cartilage are useful for treating sports-related problems, PRO
CC articular cartilage defects, osteoarthritis and rheumatoid arthritis. PRO
CC polypeptides are also useful for treating various mammalian haemoglobin-
CC associated disorders such as various thalassemias and conditions which
CC may benefit from enhanced local immune system cell infiltration. This
CC sequence represents a human PRO polynucleotide of the invention. Note:
CC The sequence data for this patent is also available in electronic format
CC from USPTO at seqdata.uspto.gov/sequence.html.
XX
SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Query Match 100.0%; Score 1346; DB 10; Length 1346;
Best Local Similarity 100.0%; Pred. No. 1.6e-262;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAGAAGTGTGTGCTCTTTTCTGCTGACATGACATTCATGCTGAAGCTCTGTCAA 60
Db 1 GAAGAAGTGTGTGCTCTTTTCTGCTGACATGACATTCATGCTGAAGCTCTGTCAA 60

QY 61 CCAAGTGCAGAAAATGCTTTTAAAGTGAGACTTAATATCAGAACAGCTCTGGAGATAAA 120
Db 61 CCAAGTGCAGAAAATGCTTTTAAAGTGAGACTTAATATCAGAACAGCTCTGGAGATAAA 120
QY 121 GCATATGCTGGGATACCAATGAAGATACCTCTCAAGGCCATGTAGCTTTCTCCATG 180
Db 121 GCATATGCTGGGATACCAATGAAGATACCTCTCAAGGCCATGTAGCTTTCTCCATG 180
QY 181 AGAAAAGTTCACACAGAGAAAGCAAGAAATTTCCATGTCTTACTTGCATGTAAAC 240
Db 181 AGAAAAGTTCACACAGAGAAAGCAAGAAATTTCCATGTCTTACTTGCATGTAAAC 240
QY 241 CAGAGGATATCATTTCTGTTGTGTGTTACAGACCTTCAAAAATCAACCCCTTCTGCT 300
Db 241 CAGAGGATATCATTTCTGTTGTGTGTTACAGACCTTCAAAAATCAACCCCTTCTGCT 300
QY 301 GTTAGGTGCAATCAGCCATAGAAATGAACAAAGACCGATCAACATGCTTCTTCTA 360
Db 301 GTTAGGTGCAATCAGCCATAGAAATGAACAAAGACCGATCAACATGCTTCTTCTA 360
QY 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCCATGACCA 420
Db 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCCATGACCA 420
QY 421 TCTGTGCCATCTGATTAATTAATTTGTGTGATTAATTTTGCATCATATAGTTGCAATT 480
Db 421 TCTGTGCCATCTGATTAATTAATTTGTGTGATTAATTTTGCATCATATAGTTGCAATT 480
QY 481 GCACTACTGATTTTATCAGGATCTGCAACGTAGAAAGAAAGCAAAAGACCACTTGAA 540
Db 481 GCACTACTGATTTTATCAGGATCTGCAACGTAGAAAGAAAGCAAAAGACCACTTGAA 540
QY 541 GTGATGACCGCTGAAGATTAAGTGAAGAAACATGATCACAATGAAATGCGATCCCTCT 600
Db 541 GTGATGACCGCTGAAGATTAAGTGAAGAAACATGATCACAATGAAATGCGATCCCTCT 600
QY 601 GATCCCTGACATGAAGGGGGCATATTAAATGATGCTTCAATGACAGAGATGAGAGGC 660
Db 601 GATCCCTGACATGAAGGGGGCATATTAAATGATGCTTCAATGACAGAGATGAGAGGC 660
QY 661 TCACCCCTCTCTGAAGGGCTGTGTCTGCTTCTCAAGAAATTAACATTTGTTCTGT 720
Db 661 TCACCCCTCTCTGAAGGGCTGTGTCTGCTTCTCAAGAAATTAACATTTGTTCTGT 720
QY 721 GTGACTGCTGACATCTGAAATTAACCAAGACGATCATATATTTGTTACCAATCTT 780
Db 721 GTGACTGCTGACATCTGAAATTAACCAAGACGATCATATATTTGTTACCAATCTT 780
QY 781 CTTTGTAAATTAATTTGAATGTCTGAAAGTGAAGCAATCAATATATACCAACAAC 840
Db 781 CTTTGTAAATTAATTTGAATGTCTGAAAGTGAAGCAATCAATATATACCAACAAC 840
QY 841 ACCACTGAATCATAGCTATTCACGACTCAAAATATTTCTAAATATTTTTCAGACGTA 900
Db 841 ACCACTGAATCATAGCTATTCACGACTCAAAATATTTCTAAATATTTTTCAGACGTA 900
QY 901 TAGGTATAAATGTGTGATGTGATTTGTAGTATTTGAATTAAGCAATTTTGAATA 960
Db 901 TAGGTATAAATGTGTGATGTGATTTGTAGTATTTGAATTAAGCAATTTTGAATA 960
QY 961 AGATCAGGATATGATATATATTTTCACACTCAAAAGACCTTAAGAAATTAATTTTCCA 1020
Db 961 AGATCAGGATATGATATATATTTTCACACTCAAAAGACCTTAAGAAATTAATTTTCCA 1020
QY 1021 GTGAGAAATACATATATATGTGTAGAAATCAATTGAAATGATCCTTTTGAAGATCA 1080
Db 1021 GTGAGAAATACATATATATGTGTAGAAATCAATTGAAATGATCCTTTTGAAGATCA 1080
QY 1081 CTTATATCACTCTGATATATGACTAAGTAAACAAAAGTGAAGTAAATTAATGGA 1140
Db 1081 CTTATATCACTCTGATATATGACTAAGTAAACAAAAGTGAAGTAAATTAATGGA 1140

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QY 1141 TGGATTAATAATGGAATTACTCATATACAGGGTGAATTTATCTGTATACACCAACA 1200
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DB 1141 TGGATTAATAATGGAATTACTCATATACAGGGTGAATTTATCTGTATACACCAACA 1200
QY 1201 GTTGATATATATTTTCTGAATATCAGCCCTAATAGACAATTCATTTGTTGACCAAT 1260
    |||||
DB 1201 GTTGATATATATTTTCTGAATATCAGCCCTAATAGACAATTCATTTGTTGACCAAT 1260
QY 1261 TCTACAAATTTGTAAGATCCCAATCTGTCTAATTAATAAGTAATATCATCTCTTTT 1320
    |||||
DB 1261 TCTACAAATTTGTAAGATCCCAATCTGTCTAATTAATAAGTAATATCATCTCTTTT 1320
QY 1321 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346
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DB 1321 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 204
ADE18483
ID ADE18483 standard; cDNA; 1346 BP.
XX
AC ADE18483;
XX
DT 29-JAN-2004 (first entry)
XX
DE Human PRO polynucleotide #241.
XX
KW Human; gene; ss; PRO; secreted polypeptide; transmembrane polypeptide;
KW tumour necrosis factor-alpha; TNF-alpha; chondrocyte cell; tumour;
KW cancer; adrenal; lung; colon; breast; prostate; rectum; kidney; cervix;
KW liver; microvascular endothelial cell; glucose; FFA;
KW skeletal muscle cell; adipocyte cell; pericyte cell;
KW inner ear utricular supporting cell; T-lymphocyte cell;
KW endothelial cell tube formation; bone disorder; cartilage disorder;
KW sports injury; proteoglycan; articular cartilage defect; osteoarthritis;
KW rheumatoid arthritis; haemoglobin-associated disorder thalassemia;
KW immune system cell infiltration.
XX
OS Homo sapiens.
XX
PN US2003194794-A1.
XX
PD 16-OCT-2003.
XX
PF 17-APR-2002; 2002US-00125805.
XX
PR 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 29-OCT-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 10-MAR-1999; 2000WO-US006319.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
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PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004342.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866038.
PR 25-MAY-2001; 2001US-00866034.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX
```

PA (GETH) GENENTECH INC.
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff B, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TR, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2004-021079/02.
DR P-PSDB; ADE18484.
XX
PT New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO1114 or
PT PRO4978, for use in molecular biology, chromosome and gene mapping, in
PT generating antisense RNA and DNA, and in gene therapy.
XX
PS Claim 2; SEQ ID NO 481; 638bp; English.
CC The invention relates to isolated human PRO polypeptides (secreted and
CC transmembrane polypeptides) and the polynucleotides encoding them. The
CC invention also relates to an antibody which specifically binds to a PRO
CC polypeptide, a method for stimulating the release of tumour necrosis
CC factor-alpha (TNF-alpha) from human blood, a method for stimulating the
CC proliferation or differentiation of chondrocyte cells and a method for
CC detecting the presence of a tumour in a mammal (e.g. adrenal, lung,
CC colon, breast, prostate, rectal, kidney, cervical and liver tumours). The
CC polynucleotides are useful in molecular biology, including uses as
CC hybridisation probes, in chromosome and gene mapping, in generating
CC antisense RNA and DNA and in gene therapy. The polynucleotides may also
CC be used in preparing PRO polypeptides by recombinant techniques and in
CC generating either transgenic animals or knock-out animals which are
CC useful in the development and screening of therapeutically useful
CC reagents. The PRO polypeptides or antibodies are used in preparing a
CC medicament for treating a condition responsive to the polypeptides or
CC antibodies, such as tumours, for stimulating and inhibiting proliferation
CC of human microvascular endothelial cells, for modulating the uptake of
CC glucose or FFA by skeletal muscle cells or adipocyte cells, for
CC stimulating differentiation of adipocyte cells, for stimulating
CC proliferation of or gene expression in pericyte cells, for stimulating
CC the proliferation of inner ear utricular supporting cells or T-lymphocyte
CC cells, for inducing endothelial cell tube formation and for treating
CC various bone and/or cartilage disorders such as sports injuries and
CC arthritis. PRO polypeptides which stimulate the release of proteoglycans
CC from cartilage are useful for treating sports-related joint problems.
CC articular cartilage defects, osteoarthritis and rheumatoid arthritis. PRO
CC polypeptides are also useful for treating various mammalian haemoglobin-
CC associated disorders such as various thalassaemias and conditions which
CC may benefit from enhanced local immune system cell infiltration. This
CC sequence represents a human PRO polynucleotide of the invention. Note:
CC The sequence data for this patent is also available in electronic format
CC from USPTO at seqdata.uspto.gov/sequence.html.
XX
SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;
Query Match 100.0%; Score 1346; DB 10; Length 1346;
Best Local Similarity 100.0%; Pred. No. 1.6e-262;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAAAGAAATGTTGGCTGCTCTTTTCTGAGTGCATTCATGCTGAACCTGTCAA 60
DB 1 GAAAGAAATGTTGGCTGCTCTTTTCTGAGTGCATTCATGCTGAACCTGTCAA 60
QY 61 CCAGGTGCAAGAAATGCTTTTAAAGTGAGACTATCAGAACAGCTCTGGAGATAAA 120
DB 61 CCAGGTGCAAGAAATGCTTTTAAAGTGAGACTATCAGAACAGCTCTGGAGATAAA 120
QY 121 GCATATGCTCGGATACCAATGAAGATACCTTCAAGCGATGTAGCTTCTCCATG 180
DB 121 GCATATGCTCGGATACCAATGAAGATACCTTCAAGCGATGTAGCTTCTCCATG 180
QY 181 AGAAAGTTCCTCAACAGAGACACAGAAATTTCCATGTCTACTTTCAGATGTAAAC 240
DB 181 AGAAAGTTCCTCAACAGAGACACAGAAATTTCCATGTCTACTTTCAGATGTAAAC 240
QY 241 CAGAGGTATCATTTCTGTTTGTGTACAGACCTTCAAAAAATCACACCTTCTGCT 300
DB 241 CAGAGGTATCATTTCTGTTTGTGTGTACAGACCTTCAAAAAATCACACCTTCTGCT 300

DB 241 CAGAGGTATCATTTCTGTTTGTGTGTACAGACCTTCAAAAAATCACACCTTCTGCT 300
QY 301 GTTGAAGTGCAATCAGCCATAGAATGACAGAACCGGATCAACATGCCCTTCTTCTA 360
DB 301 GTTGAAGTGCAATCAGCCATAGAATGACAGAACCGGATCAACATGCCCTTCTTCTA 360
QY 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTCCACACTTGACACCCATGACCCA 420
DB 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTCCACACTTGACACCCATGACCCA 420
QY 421 TCTGTGCCATCTGGAATTAATATTTGGTGTATTTTGGATCATCATAGTTGCAATT 480
DB 421 TCTGTGCCATCTGGAATTAATATTTGGTGTATTTTGGATCATCATAGTTGCAATT 480
QY 481 GCACTACTGATTTTATCAGGATCTGCAACGTAGAGAAAGAACCAACCACTGAA 540
DB 481 GCACTACTGATTTTATCAGGATCTGCAACGTAGAGAAAGAACCAACCACTGAA 540
QY 541 GTGATGACCGCTGAAGATAAGTGTGAAAACATGATCACAATGAAAATGGCATCCCTCT 600
DB 541 GTGATGACCGCTGAAGATAAGTGTGAAAACATGATCACAATGAAAATGGCATCCCTCT 600
QY 601 GATCCCTGACATGAAGGGGGCATATTAATGATGCTTCAATGACAGAGATGAGAGGC 660
DB 601 GATCCCTGACATGAAGGGGGCATATTAATGATGCTTCAATGACAGAGATGAGAGGC 660
QY 661 TCACCCCTCTGGAAGGGCTGTGTTCTGCTCTCAAGAAATTAACATTTGTTCTGT 720
DB 661 TCACCCCTCTGGAAGGGCTGTGTTCTGCTCTCAAGAAATTAACATTTGTTCTGT 720
QY 721 GTGACTGCTGACATCTGAATTAACAGAGAGATCATATATTTGTTCAACATCTT 780
DB 721 GTGACTGCTGACATCTGAATTAACAGAGAGATCATATATTTGTTCAACATCTT 780
QY 781 CTTTGTATATAATTTTGAATGCTGTTGAAGGAAAAGCAATCAATTATACCAACCAAC 840
DB 781 CTTTGTATATAATTTTGAATGCTGTTGAAGGAAAAGCAATCAATTATACCAACCAAC 840
QY 841 ACCACTGAATCATTAAGCTATTCACGACTCAAAATATTCTAAATATTTTCTGACAGTA 900
DB 841 ACCACTGAATCATTAAGCTATTCACGACTCAAAATATTCTAAATATTTTCTGACAGTA 900
QY 901 TAGGTATATAATGTGTCATGCTGATTTGTAGTTATTTGAATTTTGAATA 960
DB 901 TAGGTATATAATGTGTCATGCTGATTTGTAGTTATTTGAATTTTGAATA 960
QY 961 AGATCAGGCATATGTATATATTTTCAACCTTCAAAAGACCTTAAGGAAAATTAATTTTCCA 1020
DB 961 AGATCAGGCATATGTATATATTTTCAACCTTCAAAAGACCTTAAGGAAAATTAATTTTCCA 1020
QY 1021 GTGGAATATACATTAATATATGTTGTAAGAAATCATGAAAATGATCCTTTTGAAGATCA 1080
DB 1021 GTGGAATATACATTAATATATGTTGTAAGAAATCATGAAAATGATCCTTTTGAAGATCA 1080
QY 1081 CTTATATACCTCTGTATATGACTTAAGTAACAAAAGTGAAGTAATTATTGTAATGGA 1140
DB 1081 CTTATATACCTCTGTATATGACTTAAGTAACAAAAGTGAAGTAATTATTGTAATGGA 1140
QY 1141 TGGATTAATAATGGAATTAATCAATATACAGGGTGAATTTTATCTGTATACACCAACA 1200
DB 1141 TGGATTAATAATGGAATTAATCAATATACAGGGTGAATTTTATCTGTATACACCAACA 1200
QY 1201 GTTGATTAATATTTTCTGAATATCAGCCCTTAATAGACAAATTTCTTGTGACCAAT 1260
DB 1201 GTTGATTAATATTTTCTGAATATCAGCCCTTAATAGACAAATTTCTTGTGACCAAT 1260
QY 1261 TCTAATATTTGTAAGAGTCCAACTGTGCTAATTTAATTAAGTAATATCATCTCTTTT 1320
DB 1261 TCTAATATTTGTAAGAGTCCAACTGTGCTAATTTAATTAAGTAATATCATCTCTTTT 1320
QY 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
DB 1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 205
ADE88792
ID ADE88792 standard; cDNA, 1346 BP.
XX
AC ADE88792;
XX
DT 29-JAN-2004 (first entry)
XX
DE Human PRO polynucleotide #241.
XX
KW Human; gene; ss; PRO; secreted polypeptide; transmembrane polypeptide;
KW tumour necrosis factor-alpha; TNF-alpha; chondrocyte cell; tumour;
KW cancer; adrenal; lung; colon; breast; prostate; rectum; kidney; cervix;
KW liver; microvascular endothelial cell; glucose; FFA;
KW skeletal muscle cell; adipocyte cell; pericyte cell;
KW inner ear utricular supporting cell; T-lymphocyte cell;
KW endothelial cell tube formation; bone disorder; cartilage disorder;
KW sports injury; proteoglycan; articular cartilage defect; osteoarthritis;
KW rheumatoid arthritis; haemoglobin-associated disorder thalassaemia;
KW immune system cell infiltration.
XX
OS Homo sapiens.
XX
PN US2003199054-A1.
XX
PD 23-OCT-2003.
XX
PF 12-APR-2002; 2002US-00121054.
XX
XX 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 10-MAR-1999; 2000WO-US006319.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.

PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001US-00796498.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001US-00874503.
PR 21-JUN-2001; 2001US-00878792.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX
XX (GENTH) GENENTECH INC.
PA
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff B, Gao W;
PI Gerritsen MB, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tamas D, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2004-041356/04.
DR P-PSDB; ADE88793.
XX
XX Novel secreted and transmembrane polypeptides, PRO useful for treating
PT bone disorders, arthritis, heart attack, injuries, tumors, and
PT stimulating release of TNF-alpha from human blood.
XX
XX Claim 2; SEQ ID NO 481; 638bp; English.
PS
XX

The invention relates to isolated human PRO polypeptides (secreted and transmembrane polypeptides) and the polynucleotides encoding them. The invention also relates to an antibody which specifically binds to a PRO polypeptide, a method for stimulating the release of tumour necrosis factor-alpha (TNF-alpha) from human blood, a method for stimulating the proliferation or differentiation of chondrocyte cells and a method for detecting the presence of a tumour in a mammal (e.g. adrenal, lung, colon, breast, prostate, rectal, kidney, cervical and liver tumours). The polynucleotides are useful in molecular biology, including uses as hybridisation probes, in chromosome and gene mapping, in generating antisense RNA and DNA and in gene therapy. The polynucleotides may also be used in preparing PRO polypeptides by recombinant techniques and in generating either transgenic animals or knock-out animals which are useful in the development and screening of therapeutically useful reagents. The PRO polypeptides or antibodies are used in preparing a medicament for treating a condition responsive to the polypeptides or antibodies, such as tumours, for stimulating and inhibiting proliferation of human microvascular endothelial cells, for modulating the uptake of glucose or FFA by skeletal muscle cells or adipocyte cells, for stimulating differentiation of adipocyte cells, for stimulating proliferation of or gene expression in pericyte cells, for stimulating the proliferation of inner ear utricular supporting cells or T-lymphocyte cells, for inducing endothelial cell tube formation and for treating various bone and/or cartilage disorders such as sports injuries and arthritis. PRO polypeptides which stimulate the release of proteoglycans from cartilage are useful for treating sports-related problems, PRO articular cartilage defects, osteoarthritis and rheumatoid arthritis. PRO polypeptides are also useful for treating various mammalian haemoglobin-associated disorders such as various thalassaemias and conditions which may benefit from enhanced local immune system cell infiltration. This sequence represents a human PRO polynucleotide of the invention. Note: The sequence data for this patent is also available in electronic format from USPTO at seqdata.uspto.gov/sequence.html.

Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

| | | | | |
|----------------------------|---------|---------------------|--------|-------------------|
| Query Match | 100.0%; | Score 1346; | DB 10; | Length 1346; |
| Best Local Similarity | 100.0%; | Pred. No. 1.6e-262; | | |
| Matches 1346; Conservative | 0; | Mismatches | 0; | Indels 0; Gaps 0; |

| | | | |
|----|-----|--|-----|
| QY | 1 | GAAGAAATGTGTGGCTCTCTTTTCTGTGACTGCCATTCAATGCTGAACCTCTGTCAA | 60 |
| DB | 1 | GAAGAAATGTGTGGCTCTCTTTTCTGTGACTGCCATTCAATGCTGAACCTCTGTCAA | 60 |
| QY | 61 | CCAGGTGCAGAAAAATGCTTTTAAGTGCAGCTTAGTATCAGAACAGCTCTGGAGATATA | 120 |
| DB | 61 | CCAGGTGCAGAAAAATGCTTTTAAGTGCAGCTTAGTATCAGAACAGCTCTGGAGATATA | 120 |
| QY | 121 | GCATATGCCCTGGGATACCAATGAAGAATACTCTTCAAAGCGATGGTAGCTTCTCCATG | 180 |
| DB | 121 | GCATATGCCCTGGGATACCAATGAAGAATACTCTTCAAAGCGATGGTAGCTTCTCCATG | 180 |
| QY | 181 | AGAAAGTTCCCAACAGAGAAGCAACAGAAATTTCCATGTCTACTTGCATATGTAAAC | 240 |
| DB | 181 | AGAAAGTTCCCAACAGAGAAGCAACAGAAATTTCCATGTCTACTTGCATATGTAAAC | 240 |
| QY | 241 | CAGAGGTATCATTTCTGTGTGTGTGTTACAGACCCTTCAAAAAATCACACCCTTCTGCT | 300 |
| DB | 241 | CAGAGGTATCATTTCTGTGTGTGTGTTACAGACCCTTCAAAAAATCACACCCTTCTGCT | 300 |
| QY | 301 | GTTGAGGTGCAAATCAGCCATAGAATGAACAAGAACCGGATCAACAATGCCCTTCTTCTA | 360 |
| DB | 301 | GTTGAGGTGCAAATCAGCCATAGAATGAACAAGAACCGGATCAACAATGCCCTTCTTCTA | 360 |
| QY | 361 | AATGACCAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGCAACCACCCATGACCCA | 420 |
| DB | 361 | AATGACCAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGCAACCACCCATGACCCA | 420 |
| QY | 421 | TCTGTGCCATCTGGATTATTATATTGGTGTGATATTGTGCATCATATAGTTGCAATT | 480 |
| DB | 421 | TCTGTGCCATCTGGATTATTATATTGGTGTGATATTGTGCATCATATAGTTGCAATT | 480 |
| QY | 481 | GCACTACTGATTTTATCAGGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAA | 540 |

| | | | |
|----|------|---|------|
| Db | 481 | GCACACTGATGATTTTATCAGGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAA | 540 |
| QY | 541 | GTGAGATGACGCTGAAGATTAAGTGTGAAAAACATGATCACAATTGAAATGGCATCCCTCT | 500 |
| Db | 541 | GTGAGATGACGCTGAAGATTAAGTGTGAAAAACATGATCACAATTGAAATGGCATCCCTCT | 500 |
| QY | 601 | GATCCCTCTGACATGAAGGGGGCATATTAAAGATGCCCTTCATGACAGAGATGAGAGGC | 660 |
| Db | 601 | GATCCCTCTGACATGAAGGGGGCATATTAAAGATGCCCTTCATGACAGAGATGAGAGGC | 660 |
| QY | 661 | TCAACCCCTCTGAAAGGGCTGTGTTCTCTGCTTCTCAAGAAATTAAACATTGTTCGT | 720 |
| Db | 661 | TCAACCCCTCTCTGAAGGGCTGTGTTCTCTGCTTCTCAAGAAATTAAACATTGTTCGT | 720 |
| QY | 721 | GTGACTGCTGAGCATCTCTGAATAACCAAGACAGATCATATATTTGTTCACCATTCCT | 780 |
| Db | 721 | GTGACTGCTGAGCATCTCTGAATAACCAAGACAGATCATATATTTGTTCACCATTCCT | 780 |
| QY | 781 | CTTTTGTATTAATTTTGAATGCTTGAAGTGAAGGAAGCAATCAATTATACCCACCAAC | 840 |
| Db | 781 | CTTTTGTATTAATTTTGAATGCTTGAAGTGAAGGAAGCAATCAATTATACCCACCAAC | 840 |
| QY | 841 | ACCACTGAATCATTAAGCTATTCAACGACTCAAAATATTCTAAATATTTTTCGACAGTA | 900 |
| Db | 841 | ACCACTGAATCATTAAGCTATTCAACGACTCAAAATATTCTAAATATTTTTCGACAGTA | 900 |
| QY | 901 | TAGTGTATAAATGCTGTCAATGCTATTGTAGTTATATGATTTAAGCATTTTGAAGATA | 960 |
| Db | 901 | TAGTGTATAAATGCTGTCAATGCTATTGTAGTTATATGATTTAAGCATTTTGAAGATA | 960 |
| QY | 961 | AGATCAGGATATGATATATATTTTCAACCTTCAAGACCTAAGGAAAAATAATTTTCCA | 1020 |
| Db | 961 | AGATCAGGATATGATATATATTTTCAACCTTCAAGACCTAAGGAAAAATAATTTTCCA | 1020 |
| QY | 1021 | GTGAGAGATACATATAATATGCTGTAGAAATCATTTGAAATGATCCTTTTGCAGATCA | 1080 |
| Db | 1021 | GTGAGAGATACATATAATATGCTGTAGAAATCATTTGAAATGATCCTTTTGCAGATCA | 1080 |
| QY | 1081 | CTTATATCACTCTGTATATGACTAAAGTAAACAAAAGTGAGAGTAATTATTTGTAATGGA | 1140 |
| Db | 1081 | CTTATATCACTCTGTATATGACTAAAGTAAACAAAAGTGAGAGTAATTATTTGTAATGGA | 1140 |
| QY | 1141 | TGCAATAAAAATGGAATTACTCATATACAGGGTGAATTTCCTGTTATCACCAACA | 1200 |
| Db | 1141 | TGCAATAAAAATGGAATTACTCATATACAGGGTGAATTTCCTGTTATCACCAACA | 1200 |
| QY | 1201 | GTTGATTATATATTTTCTGAATATCAGCCCTTAATAGACAAATTCATTTGTTGACCAAT | 1260 |
| Db | 1201 | GTTGATTATATATTTTCTGAATATCAGCCCTTAATAGACAAATTCATTTGTTGACCAAT | 1260 |
| QY | 1261 | TCTAACAATTGTAAAAAGTCCAACTCTGTCTAATCTTAATAAGTAAATATCATCTCTTTT | 1320 |
| Db | 1261 | TCTAACAATTGTAAAAAGTCCAACTCTGTCTAATCTTAATAAGTAAATATCATCTCTTTT | 1320 |
| QY | 1321 | AAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346 | |
| Db | 1321 | AAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346 | |

| | |
|------------|---|
| RESULT 206 | |
| ADA56090 | |
| ID | ADA56090 standard; DNA; 1432 BP. |
| XX | |
| AC | ADA56090; |
| XX | |
| DT | 20-NOV-2003 (first entry) |
| XX | |
| DE | Gene encoding human secreted protein #269. |
| XX | |
| KM | immunosuppressive; antiinflammatory; antiasthmatic; antiallergic; |
| KM | cytostatic; cerebroprotective; neuroprotective; nootropic; |
| KM | cardiovascular; antiarteriosclerotic; gene therapy; |

| | | | |
|----|------|--|------|
| Qy | 1140 | ATGATATAAAATGGAATTACTCATATACAGGGTGAATTTTATCTGTTATCACACCAAC | 1199 |
| | | | |
| | | | |
| | | | |
| Db | 1203 | ATGATATAAAATGGAATTACTCATATACAGGGTGAATTTTATCTGTTATCACACCAAC | 1262 |
| | | | |
| | | | |
| | | | |
| Qy | 1200 | AGTTGATATATATTTTCTGATATACAGCCCTAATAGACAATTCTATTGTTGACCAT | 1259 |
| | | | |
| | | | |
| | | | |
| Db | 1263 | AGTTGATATATATTTTCTGATATACAGCCCTAATAGACAATTCTATTGTTGACCAT | 1322 |
| | | | |
| | | | |
| | | | |
| Qy | 1260 | TTCTACAA TTGTAAAGTCCAATCTGTGCTAACTTAATAAAGTAATATCATCTCTTTT | 1319 |
| | | | |
| | | | |
| Db | 1323 | TTCTACAA TTGTAAAGTCCAATCTGTGCTAACTTAATAAAGTAATATCATCTCTTTT | 1382 |
| | | | |
| | | | |
| | | | |
| Qy | 1320 | TAAAAA AAAAAAAAAAAAAAAAAAAAAA | 1346 |
| | | | |
| | | | |
| Db | 1383 | TGATTGTGAAAAAAAAAAAAAAAAAAAAA | 1409 |
| | | | |
| | | | |
| | | | |

RESULT 207
ADA39900
ID ADA39900 standard; cDNA; 1432 BP.

| | |
|----|---------------------------|
| AC | ADA39900; |
| XX | |
| DT | 20-NOV-2003 (first entry) |

Human secreted protein encoding cDNA.

Human; secreted protein; cancer; hyperproliferative disorder;
rheumatoid arthritis; autoimmune disorder; haematopoietic disorder;
anaemia; allergic reaction; asthma; cardiovascular disorder;
wound healing; cytostatic; immunosuppressive; nocotropic; neuroprotective;
antiviral; anticallergic; hepatocytropic; antidiabetic; antiinflammatory;
vulnerary; cardiant; gene therapy; ss.

Homo sapiens.

PN WO2002102993-A2.

PD 27-DEC-2002.

PF 19-MAR-2002; 2002WO-US008123.

PR 21-MAR-2001; 2001US-0277340P.

PR 13-NOV-2001; 2001US-0331287P.

PA (HUMA-) HUMAN GENOME SCI INC.

PI Rosen CA, Ruben SM;

WPI: 2003-175238/17.

PT New human secreted protein

PT preventing or treating car

X

XX

CC ADA40566-ADA41501 for human

therapy. The polypeptides,

cc useful for preparing a dta

CC polypeptides and nucleic acids

or other hyperproliferative

erythematous, multiple so

CC thrombocytopenia), allergy

inflammatory disorders (e.g. ischaemia-reperfusion injury, inflammatory bowel disease or Crohn's disease), neurodegenerative disorders (e.g. Alzheimer's disease or Parkinson's disease), cardiovascular disorders (e.g. atherosclerosis, myocarditis), infectious diseases (bacterial, fungal or viral infections including HIV/AIDS), or wound healing and disorders of epithelial cell proliferation. The nucleic acids are also useful for chromosome identification, radiation hybrid mapping or long-range restriction mapping, as molecular weight markers, or as hybridization or diagnostic probes. The polypeptides and antibodies are useful for providing immunological probes for differential identification of the tissues immunohistochemistry assays. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published/pct/sequences](http://wipo.int/pub/published/pct/sequences).

Sequence 1432 BP; 485 A; 258 C; 252 G; 437 T; 0 U; 0 Other;

| | | | | |
|----------------------------|-------|---------------------|-----------|--------------|
| Query Match | 98.5% | Score 1325.4; | DB 7; | Length 1432; |
| Best Local Similarity | 99.5% | Pred. No. 2.4e-258; | | |
| Matches 1340; Conservative | 0; | Mismatches 6; | Indels 1; | Gaps 1; |

| | |
|----|--|
| Qy | 1 GAAAGATGTTGGCTGCTTTTTCTGGTGA CTGCCATT CATGTCTGA ACTCTGTCAA 60 |
| Db | 63 GAAGAATGTTGGCTGCTTTTTCTGGTGA CTGCCATT CATGTCTGA ACTCTGTCAA 122 |

| | | | |
|----|-----|---|-----|
| Oy | 61 | CCAGGTGCAGAAATGCTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATATA | 120 |
| | | | |
| | | | |
| | | | |
| | | | |
| Db | 123 | CCAGGTGCAGAAATGCTTTAAAGTGAGCTTAGTATCAGAACAGCTCTGGAGATATA | 182 |

| | | |
|----|---|-----|
| Oy | 121 GCATATGCCCTGGGATACCAATGAAGATACTCTTCAAAGGATGTAGCTTTCCCATG | 180 |
| | | |
| Db | 183 GCATATGCCTGGGATACCACAAATGAAGAATACTCTTCAAAGCGATGTAGCTTTCTCCATG | 242 |

[illegible]

| | | | | |
|----|-----|-----------------------------------|----------------------|-----|
| Qy | 241 | CGAGGGTATCATCTGGTTGTGGTACAGACCTTC | CAAAATCACACCTTCCTGCT | 306 |
| | | | | |
| Db | 303 | CAGAGGTATCATCTGGTTGTGGTACAGACCTTC | CAAAATCACACCTTCCTGCT | 362 |

| | | | |
|----|-----|---|-----|
| yy | 301 | G T T G A G T G C A A T C A G C C A T A A A A A T G A A C A A G A A C C G A A T A A C A A T G C C T T C T T C T A | 422 |
| Db | 363 | G T T G A G T G C A T C A G C C A T A A G A A T G A A C A A G A A C C G A T C A C A A T G C C T T C T T C T A | |

423 AATGACCAACTCTGGAAITTTAAAAATCCCTTCACACTTGCACCACCCATGGACCCA 482

483 TCTGTGCCCATCTGCATTATTTGGTGTGATATTTCATCATCATGTTGCATT 542

Db 543 GCACTACTGATTTATCAAGGATCTGCCAAGTAGAGAGAACAACCATCTGAA 602

Db 603 GTCATGACGCTGAAGATAAGTGTGAAAAACATGATCACAATTGAAATGGCATCCCTCT 662

663 GATCCCTGACATGAGGAGGACATATTATGATGCTTCATGACAGAGATGAGAGC 722

| | | | |
|----|-----|--|-----|
| Db | 723 | CTCACCCCTCTCTGAAGGCGCTGTGTTCTCTCTCTCAAGAAATTAAACATTGTTCTCG | 782 |
| Or | 720 | TGAGACTGCTGAGCATCTTGAATAACCAAGAGAGATCATATATTTGTTTCAACCATCT | 779 |

Db 783 TGTGACTGCTGACATCCTGAATACCAAGCAGATCATATATTTGTTCACCATTC 842

QY 780 TCTTTGTAATAAATTTTGAATGCTTGAAGTGAAGCAATCAATTATACCCAA 839
| | | | |
Db 843 TCTTTGTAATAAATTTTGAATGCTTGAAGTGAAGCAATCAATTATACCCAA 902
| | | | |
QY 840 CACCACCTGAATCATATAGCTATTCACGACTCAAAATATTTCTGAAGT 899
| | | | |
Db 903 CACCACCTGAATCATATAGCTATTCACGACTCAAAATATTTCTGAAGT 962
| | | | |
QY 900 ATAGTGTATAAATGCTGATGCTGATTTTGTAGTATTTAGCATTTTGAAGT 959
| | | | |
Db 963 ATAGTGTATAAATGCTGATGCTGATTTTGTAGTATTTAGCATTTTGAAGT 1022
| | | | |
QY 960 AAGATCAGCATATGATATATTTTCAACACTTCAAGACCTAAGAAAATTTTCC 1019
| | | | |
Db 1023 AAGATCAGCATATGATATATTTTCAACACTTCAAGACCTAAGAAAATTTTCC 1082
| | | | |
QY 1020 AGTGAGAAATCATATATATGCTGTAAGAAATCATTTGAAATGATCCTTTTGAAGT 1079
| | | | |
Db 1083 AGTGAGAAATCATATATATGCTGTAAGAAATCATTTGAAATGATCCTTTTGAAGT 1142
| | | | |
QY 1080 ACTTATATCTCTGTATATGATTAAGTAAACAAAGTGAGAAATTTTGAAGT 1139
| | | | |
Db 1143 ACTTATATCTCTGTATATGATTAAGTAAACAAAGTGAGAAATTTTGAAGT 1202
| | | | |
QY 1140 ATGCATAAAAATGGAATTAATCTCATATACAGGGTGGAATTTTCTGTTATCACCAAC 1199
| | | | |
Db 1203 ATGCATAAAAATGGAATTAATCTCATATACAGGGTGGAATTTTCTGTTATCACCAAC 1262
| | | | |
QY 1200 AGTGATATATATTTTCTGATATACAGCCCTTAATAGAGCAATTTTGTGACCAT 1259
| | | | |
Db 1263 AGTGATATATATTTTCTGATATACAGCCCTTAATAGAGCAATTTTGTGACCAT 1322
| | | | |
QY 1260 TTCTACAATTTGTAAGTCCCAATCTGTCTAATTAATAAGTAATATCATCTCTTTT 1319
| | | | |
Db 1323 TTCTACAATTTGTAAGTCCCAATCTGTCTAATTAATAAGTAATATCATCTCTTTT 1382
| | | | |
QY 1320 TAAAAAATTTTAAAAATTTTAAAAATTTTAAAAATTTTAAAAATTTTAAAAATTTT 1346
| | | | |
Db 1383 TGATGTGAAAAAATTTTAAAAATTTTAAAAATTTTAAAAATTTTAAAAATTTTAAAAATTTT 1409
| | | | |

RESULT 208

ADAL1489
ID ADAL1489 standard; DNA; 1432 BP.
XX
AC ADAL1489;
XX
DT 06-NOV-2003 (first entry)
XX
DE Human cDNA encoding a novel secreted protein, SEQ ID NO 17.
XX
KW cancer; inflammation; immune disorder; neurological disorder;
KW blood clotting disorder; food additive; food preservative;
KW storage capability; fat content; nutritional component; ds; gene; human.
XX
OS Homo sapiens.
XX
PN US2003055236-A1.
XX
PD 20-MAR-2003.
XX
PF 14-MAR-2002; 2002US-00097065.
XX
PR 18-DEC-1997; 97US-0068006P.
PR 18-DEC-1997; 97US-0068007P.
PR 18-DEC-1997; 97US-0068008P.
PR 18-DEC-1997; 97US-0068053P.
PR 18-DEC-1997; 97US-0068054P.
PR 18-DEC-1997; 97US-0068057P.
PR 18-DEC-1997; 97US-0068064P.
PR 18-DEC-1997; 97US-0070923P.
PR 19-DEC-1997; 97US-0068169P.
PR 19-DEC-1997; 97US-0068365P.

PR 19-DEC-1997; 97US-0068367P.
PR 19-DEC-1997; 97US-0068368P.
PR 19-DEC-1997; 97US-0068369P.
PR 17-DEC-1998; 98MO-US027059.
PR 17-JUN-1999; 99US-00334595.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Moore PA, Ruben SM, Carter KC, Shi Y, Rosen CA, Soppet DR;
PI Kyaw H, Wei Y, Florence KA, Duan DR, Florence C, Greene JM, Feng P;
PI Ferrie AM, Yu G, Janat P, Ni J;
XX
DR WPI; 2003-567105/53.
DR P-PSDB; ADAL1613.
XX
PT New secreted HKABT24 nucleic acid molecules and polypeptides, useful for
PT preventing, treating, or ameliorating a medical condition, such as
PT cancer, inflammation, immune disorders, neurological and blood clotting
PT disorders.
XX
PS Claim 1; SEQ ID NO 17; 118pp; English.
XX
CC The invention relates to an isolated HKABT24 nucleic acid molecule. The
CC polypeptides, nucleic acids and antibodies are useful for diagnosing a
CC pathological condition or a susceptibility to a pathological condition,
CC for preventing, treating, or ameliorating a medical condition, such as
CC cancer, inflammation and other immune disorders, neurological and blood
CC clotting disorders. The nucleic acids are also useful for chromosome
CC identification, radiation hybrid mapping or long-range restriction
CC mapping. The polypeptides and antibodies are useful for providing
CC immunological probes for differential identification of the tissues
CC immunohistochemistry assays. The polypeptide, polynucleotide, agonist or
CC antagonist may also be used as a food additive or preservative to
CC increase or decrease storage capabilities, fat content or other
CC nutritional components. The present sequence represents cDNA encoding a
CC novel human secreted protein. Note: The sequence data for this patent did
CC not form part of the printed specification but was obtained in electronic
CC format directly from USPTO at
CC seqdata.uspto.gov.uk/sequence.html?DocID=20030055236.
XX
SQ Sequence 1432 BP; 485 A; 258 C; 252 G; 437 T; 0 U; 0 Other;

Query Match 98.5%; Score 1325.4; DB 8; Length 1432;
Best Local Similarity 99.5%; Pred. No. 2.4e-258;
Matches 1340; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

QY 1 GAAAGATGTTGGGCTGCTCTTTTCTGTGAGTCCCATTCATGCTGAAGTCTGTCAA 60
| | | | |
Db 63 GAAAGATGTTGGGCTGCTCTTTTCTGTGAGTCCCATTCATGCTGAAGTCTGTCAA 122
| | | | |
QY 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTATGATCAGAACAGCTCTGGAGATCAA 120
| | | | |
Db 123 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTATGATCAGAACAGCTCTGGAGATCAA 182
| | | | |
QY 121 GCATATGCTGGAATCAATGAGATACCTCTTCAAGCGATGTGACTTCTCCATG 180
| | | | |
Db 183 GCATATGCTGGAATCAATGAGATACCTCTTCAAGCGATGTGACTTCTCCATG 242
| | | | |
QY 181 AGAAAAGTTCCCAAGAGAGCAAGAAATTTCCCATGTCTTCTTGCATGTAAAC 240
| | | | |
Db 243 AGAAAAGTTCCCAAGAGAGCAAGAAATTTCCCATGTCTTCTTGCATGTAAAC 302
| | | | |
QY 241 CAGAGGTATCATTTCTGTTTGTGTTACAGACCTTCAAAAAATCACCCTTCTGCT 300
| | | | |
Db 303 CAGAGGTATCATTTCTGTTTGTGTTACAGACCTTCAAAAAATCACCCTTCTGCT 362
| | | | |
QY 301 GTTGAAGTGCATACAGCCATTAAGATGAACAGAACCGGATCAACAATGCTTCTTCTA 360
| | | | |
Db 363 GTTGAAGTGCATACAGCCATTAAGATGAACAGAACCGGATCAACAATGCTTCTTCTA 422
| | | | |
QY 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGACACCAATGACCCA 420
| | | | |
Db 423 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGACACCAATGACCCA 482
| | | | |

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OY 421 TCTGTCCTCATCTGGATTATATATTTGGTGTATTTTGCATCATAGTTCGAATT 480
DB 483 TCTGTCCCATCTGATTAATATATTTGGTGTATTTTGCATCATAGTTCGAATT 542
OY 481 GCACTACTGATTTTATCAGGAGTCTGGCAACGTAGAAGAAACAAGAACCATCTGAA 540
DB 543 GCACTACTGATTTTATCAGGAGTCTGGCAACGTAGAAGAAACAAGAACCATCTGAA 602
OY 541 GTGATGACGCTGAAGATAGTGTGAAAAATGATCACAATTGAAAAATGCCATCCCTCT 600
DB 603 GTGATGACGCTGAAGATAGTGTGAAAAATGATCACAATTGAAAAATGCCATCCCTCT 662
OY 601 GATCCCTGGAATGAAAGG- GGGCATATTAAATGATGCTTCATGACAGAGTAGAGG 659
DB 663 GATCCCTGGAATGAAAGGAGGAGCATATTAATGATGCTTCATGACAGAGTAGAGG 722
OY 660 CTCAACCTCTCTGAAGGCTGTGTCTGCTTCTCAAGAAATTAAACATTTGTTCTG 719
DB 723 CTCAACCTCTCTGAAGGCTGTGTCTGCTTCTCAAGAAATTAAACATTTGTTCTG 782
OY 720 TGTGACTGCTGAGCATCTGAATAACCAAGACAGATCATATATTTTTCACCATCT 779
DB 783 TGTGACTGCTGAGCATCTGAATAACCAAGACAGATCATATATTTTTCACCATCT 842
OY 780 TCTTTGTATAAATTTTGAATGTGCTTGAAGTGAAGAAAGCAATCAATTATACCAACAA 839
DB 843 TCTTTGTATAAATTTTGAATGTGCTTGAAGTGAAGAAAGCAATCAATTATACCAACAA 902
OY 840 CACCACGAAATCATTAAGCTATTACGACCTCAAAATATTCTAAATATTTTCTGACAGT 899
DB 903 CACCACGAAATCATTAAGCTATTACGACCTCAAAATATTCTAAATATTTTCTGACAGT 962
OY 900 ATAGTATAAATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 959
DB 963 ATAGTATAAATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1022
OY 960 AAGATCAGCATATGATATATTTTTCACACTCAAGACCTAAGAAATTAATTTTCC 1019
DB 1023 AAGATCAGCATATGATATATTTTTCACACTCAAGACCTAAGAAATTAATTTTCC 1082
OY 1020 AGTGAGATACATATATATATGCTGAGAAATCATTTGAATGATCCTTTTGAAGATC 1079
DB 1083 AGTGAGATACATATATATATGCTGAGAAATCATTTGAATGATCCTTTTGAAGATC 1142
OY 1080 ACTTATATCACTCTGATATGACTAAGTAAACAAAGTGAAGTAAATTTGAATG 1139
DB 1143 ACTTATATCACTCTGATATGACTAAGTAAACAAAGTGAAGTAAATTTGAATG 1202
OY 1140 ATGATATAAATGGAATTAATCATATACAGGCTGAATTTTCTGTTATCACACCAAC 1199
DB 1203 ATGATATAAATGGAATTAATCATATACAGGCTGAATTTTCTGTTATCACACCAAC 1262
OY 1200 AGTGATATATATTTTCTGAATATACAGCCCTAATAGACAAATTTGTTGACCAT 1259
DB 1263 AGTGATATATATTTTCTGAATATACAGCCCTAATAGACAAATTTGTTGACCAT 1322
OY 1260 TTCTACAATTTGTAAAGTCCAATCTGTGCTAACTTAATAAGTAAATCATCTCTTT 1319
DB 1323 TTCTACAATTTGTAAAGTCCAATCTGTGCTAACTTAATAAGTAAATCATCTCTTT 1382
OY 1320 TAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAA 1346
DB 1383 TGATTGTGAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTT 1409
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RESULT 209
ADD37613
ID ADD37613 standard; cDNA; 1432 BP.

XX AC ADD37613;
XX DT 15-JAN-2004 (first entry)

```
XX DB Human secreted protein encoding sequence #95.  
XX KW human secreted protein; Antiallergic; Antiinflammatory; Antibacterial;  
KM Anti-HIV; Cytostatic; Immunosuppressive; Hemostatic; ss.  
XX OS Homo sapiens.  
XX PN MO200290526-A2.  
XX PD 14-NOV-2002.  
XX PF 19-MAR-2002; 2002MO-US008279.  
XX PR 21-MAR-2001; 2001US-0277340P.  
PR 19-JUL-2001; 2001US-0306171P.  
PR 13-NOV-2001; 2001US-0331287P.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX PA Rosen CA, Ruben SM;  
XX PI WPI; 2003-140218/13.  
XX DR  
XX PT New human secreted proteins and nucleic acid molecules, useful for  
PT preparing a diagnostic or pharmaceutical composition for diagnosing or  
PT treating allergic or asthmatic disorders, or related immediate  
PT hypersensitivity disorders.  
XX PS  
XX Claim 7; SEQ ID NO 95; 1323bp; English.  
XX CC The present invention relates to an isolated polypeptide or human  
CC secreted protein. The polypeptides, nucleic acid molecules, antibodies or  
CC their fragments, and agonists or antagonists that bind are useful for  
CC preparing a diagnostic or pharmaceutical composition for diagnosing or  
CC treating allergic or asthmatic disorders. The polypeptide is also useful  
CC for identifying a binding partner by contacting the polypeptide with a  
CC binding partner, and determining whether the binding partner increases or  
CC decreases the activity of the polypeptide. The polypeptides and nucleic  
CC acid molecules are also useful for detecting, preventing, diagnosing,  
CC prognosticating, treating or ameliorating inflammatory disorders  
CC neoplastic diseases, wound healing and disorders of epithelial cell  
CC proliferation, immune disorders, cardiovascular disorders, blood-related  
CC disorders, infectious diseases, endocrine disorders, or gastrointestinal  
CC disorders. The nucleic acids are also useful for chromosome  
CC identification, radiation hybrid mapping or long-range restriction  
CC mapping, as molecular weight markers, or as hybridization or diagnostic  
CC probes. The polypeptides and antibodies are useful for providing  
CC immunological probes for differential identification of the tissues  
CC immunohistochemistry assays. The present sequence represents a human  
CC secreted protein encoding sequence.  
XX SQ Sequence 1432 BP; 485 A; 258 C; 252 G; 437 T; 0 U; 0 Other;  
Query Match 98.5%; Score 1325.4; DB 9; Length 1432;  
Best Local Similarity 99.5%; Pred. No. 2.4e-258;  
Matches 1340; Conservative 0; Mismatches 6; Indels 1; Gaps 1;  
OY 1 GAAAGAAATGTTGGCTGCTCTTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60  
DB 63 GAAAGAAATGTTGGCTGCTCTTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 122  
OY 61 CCAAGTGCAGAAATGCTTTTAAAGTGAAGTATGATCAGAACAGCTCTGGAGATAAA 120  
DB 123 CCAAGTGCAGAAATGCTTTTAAAGTGAAGTATGATCAGAACAGCTCTGGAGATAAA 182  
OY 121 GCATATGCTGGGATACCAATGAAATACCTCTTCAAGGCGATGTAAGCTTTCTCCATG 180  
DB 183 GCATATGCTGGGATACCAATGAAATACCTCTTCAAGGCGATGTAAGCTTTCTCCATG 242  
OY 181 AGAAAAAGTTCCCAACAGAGAAAGCAACAGAAATTTCCCATGTCTTCTTGAATGTAAAC 240  
DB 243 AGAAAAAGTTCCCAACAGAGAAAGCAACAGAAATTTCCCATGTCTTCTTGAATGTAAAC 302
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OY 241 CAGAGGGTATCATCTGTGTTGTGTACAGACCCTTCAAAAAATCACACCCTTCTGCT 300
DB 303 CAGAGGGTATCATCTGTGTTGTGTACAGACCCTTCAAAAAATCACACCCTTCTGCT 362
OY 301 GTGAGGTGCAATCAGCCATAGAATGAACAAGAACCGGATCAAGATGCTTCTTCTA 360
DB 363 GTTGAAGTGCAATCAGCCATAGAATGAACAAGAACCGGATCAAGATGCTTCTTCTA 422
OY 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCAGCCCA 420
DB 423 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCAGCCCA 482
OY 421 TCTGTGCCCCATCTGATTATTATATTTGTGTGATATTTTGCATCATCATAGTTGCAATT 480
DB 483 TCTGTGCCCCATCTGATTATTATATTTGTGTGATATTTTGCATCATCATAGTTGCAATT 542
OY 481 GCACTACTGAATTTATCAGGATCTGGCAACGTAGAAGAAAGAAAGAAAGAACCATCTGAA 540
DB 543 GCACTACTGAATTTATCAGGATCTGGCAACGTAGAAGAAAGAAAGAAAGAACCATCTGAA 602
OY 541 GTGATGACGCTGNAAGATAAGTNGAANAACATGATCAATTTGAAATGGCATCCCTCT 600
DB 603 GTGATGACGCTGNAAGATAAGTNGAANAACATGATCAATTTGAAATGGCATCCCTCT 662
OY 601 GATCCCCCTGACATGAAGGG-GGGCATATTATATGATGCTTCAAGAAATTAACATTTGTTCTG 659
DB 663 GATCCCCCTGACATGAAGGGGAGGGCATATTATATGATGCTTCAAGAAATTAACATTTGTTCTG 722
OY 660 CTCACCCCCTCTCTGAAGGGGCTGTTCTGCTTCTCTCAAGAAATTAACATTTGTTCTG 719
DB 723 CTCACCCCCTCTCTGAAGGGGCTGTTCTGCTTCTCTCAAGAAATTAACATTTGTTCTG 782
OY 720 TGTGACTGCTGAGCATCTCGAAATACCAAGAGCAGATCATATATTTGTTCAACCATCT 779
DB 783 TGTGACTGCTGAGCATCTCGAAATACCAAGAGCAGATCATATATTTGTTCAACCATCT 842
OY 780 TCTTTTGTATATAATTTTGAATGTCTTGAAAGTGAAAAAGCAATCAATATATACCACCAA 839
DB 843 TCTTTTGTATATAATTTTGAATGTCTTGAAAGTGAAAAAGCAATCAATATATACCACCAA 902
OY 840 CACCACTGAATATCAAGCTATTCACGACTCAAAATATTTCTAAATATTTTCTGACAGT 899
DB 903 CACCACTGAATATCAAGCTATTCACGACTCAAAATATTTCTAAATATTTTCTGACAGT 962
OY 900 ATAGTGTATAAATGTGTCATGTGTATTTGTAGTTATGATTTAAGCATTTTGAAGAT 959
DB 963 ATAGTGTATAAATGTGTCATGTGTATTTGTAGTTATGATTTAAGCATTTTGAAGAT 1022
OY 960 AAGATCAGGCATATGTATATTTTCAACACTTCAAGAGCCTAAGGAAAAATTAATTTTCC 1019
DB 1023 AAGATCAGGCATATGTATATTTTCAACACTTCAAGAGCCTAAGGAAAAATTAATTTTCC 1082
OY 1020 AGTGAGAAATACATATATATATGTAGAAATCATTTGAAATGATCTTTTGACGATC 1079
DB 1083 AGTGAGAAATACATATATATATGTAGAAATCATTTGAAATGATCTTTTGACGATC 1142
OY 1080 ACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAGAGTATTTATTTGTAATG 1139
DB 1143 ACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAGAGTATTTATTTGTAATG 1202
OY 1140 ATGATAAAAATGAAATTTACTCATATACAGGGTGGAATTTTATCTGTATCACACCAAC 1199
DB 1203 ATGATAAAAATGAAATTTACTCATATACAGGGTGGAATTTTATCTGTATCACACCAAC 1262
OY 1200 AGTTGATTATATATTTTCTGAATATCAGCCCTTAATAGGACAATTTCTATTTGTGACAT 1259
DB 1263 AGTTGATTATATATTTTCTGAATATCAGCCCTTAATAGGACAATTTCTATTTGTGACAT 1322
OY 1260 TTCTACAATTTGTAAAAAGTCCAAATCTGTGCTAACTTAATAAGTAAATCATCTCTTTT 1319
DB 1323 TTCTACAATTTGTAAAAAGTCCAAATCTGTGCTAACTTAATAAGTAAATCATCTCTTTT 1382

OY 1320 TAAAAA 1346
DB 1383 TGATGTGAAAAA 1409
RESULT 210
AAZ65261
ID AAZ65261 standard; DNA; 1447 BP.
XX
AC AAZ65261;
XX
DT 23-MAR-2000 (first entry)
XX
DE Human secreted protein gene 12.
XX
KW Human; secreted protein; cancer; tumour; developmental abnormality;
KW foetal deficiency; blood disorder; immune system disorder; inflammation;
KW autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
KW schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder;
KW atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;
KW digestive disorder; endocrine disorder; infection; AIDS; leukaemia;
KW therapy; ds.
XX
OS Homo sapiens.
XX
PN WO9958660-A1.
XX
PD 18-NOV-1999.
XX
PF 06-MAY-1999; 99WO-US009847.
XX
PR 12-MAY-1998; 98US-0085093P.
PR 12-MAY-1998; 98US-0085094P.
PR 12-MAY-1998; 98US-0085105P.
PR 12-MAY-1998; 98US-0085180P.
PR 18-MAY-1998; 98US-0085906P.
PR 18-MAY-1998; 98US-0085920P.
PR 18-MAY-1998; 98US-0085921P.
PR 18-MAY-1998; 98US-0085922P.
PR 18-MAY-1998; 98US-0085923P.
PR 18-MAY-1998; 98US-0085924P.
PR 18-MAY-1998; 98US-0085925P.
PR 18-MAY-1998; 98US-0085927P.
PR 18-MAY-1998; 98US-0085928P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Florence K, Ni J, Rosen CA, Carter KC, Moore PA;
PI Olsen HS, Shi Y, Young PE, Wei F, Brewer LA, Soppet DR, Lafleur DW;
PI Endress GA, Ebner R;
XX
DR WPI; 2000-062296/05.
DR P-PSDB; AAY76135.
XX
PS Claim 1; Page 303; 475pp; English.
XX
CC AAZ65250 to AAZ65350 represent 97 isolated human secreted protein genes.
CC AAY76124 to AAY76223 represent the secreted proteins encoded by the 97
CC human genes. The genes and their corresponding secreted polypeptides are
CC useful for preventing, treating or ameliorating medical conditions, e.g.
CC by protein or gene therapy. Also pathological conditions can be diagnosed
CC by determining the amount of the new polypeptides in a sample or by
CC determining the presence of mutations in the new genes. Specific uses are
CC described for each of the 97 genes, based on which tissues they are most
CC highly expressed in, and include developing products for the diagnosis or
CC treatment of cancer, tumours, developmental abnormalities and foetal
CC deficiencies, blood disorders, diseases of the immune system, autoimmune
CC diseases, inflammation, allergies, Alzheimer's and cognitive disorders,
CC schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders,

CC atherosclerosis, diabetes, cardiovascular disorders, kidney disorders,
 CC digestive/endocrine disorders, infections and AIDS. The polypeptides are
 CC also useful for identifying their binding partners. The sequences shown
 CC in AAY76224 to AAY76424 represent fragments of the secreted proteins

XX
 SQ Sequence 1447 BP; 488 A; 262 C; 256 G; 439 T; 0 U; 2 Other;

Query Match 98.4%; Score 1324.6; DB 3; Length 1447;
 Best Local Similarity 99.3%; Pred. No. 3.5e-258;
 Matches 1338; Conservative 2; Mismatches 6; Indels 1; Gaps 1;

QY 1 GAAAGAATGTTGGCTGCTCTTTTCTGAGTGCCTCATTCAGTGAAGTCTGTCAA 60
 DB 71 GAAAGAATGTTGGCTGCTCTTTTCTGAGTGCCTCATTCAGTGAAGTCTGTCAA 130
 QY 61 CCAGGTGAGAAAATGCTTTAAAGTGAAGTCTAGTATCAGAAAGCTCTGGAGATAAA 120
 DB 131 CCAGGTGAGAAAATGCTTTAAAGTGAAGTCTAGTATCAGAAAGCTCTGGAGATAAA 190
 QY 121 GCATATGCTGGGATACCAATGAAGATACCTCTCAAGCGATGAGCTTTCTCCATG 180
 DB 191 GCATATGCTGGGATACCAATGAAGATACCTCTCAAGCGATGAGCTTTCTCCATG 250
 QY 181 AGAAAGTTCCTCAACAGAGAAGCAAGAAATTCCTATGCTTCTTGAATGAACC 240
 DB 251 AGAAAGTTCCTCAACAGAGAAGCAAGAAATTCCTATGCTTCTTGAATGAACC 310
 QY 241 CAGAGGATCATCTGTTGTGTGTACAGACCTTCAAAAAATCACACCTTCTGCT 300
 DB 311 CAGAGGATCATCTGTTGTGTGTACAGACCTTCAAAAAATCACACCTTCTGCT 370
 QY 301 GTTGAGGTGCAATCAGCCATAAGATGAACAAGAACCGGATCAAGATGCTTCTTA 360
 DB 371 GTTGAGGTGCAATCAGCCATAAGATGAACAAGAACCGGATCAAGATGCTTCTTA 430
 QY 361 AATGACCAAACTCTGGAATTTTAAATCCCTCCACACTTGACCAACCCATGACCCA 420
 DB 431 AATGACCAAACTCTGGAATTTTAAATCCCTCCACACTTGACCAACCCATGACCCA 490
 QY 421 TCTGTGCCCATCTGGATTATATATTTTGTGTGATTTTTCATCATCATAGTTGCAATT 480
 DB 491 TCTGTGCCCATCTGGATTATATATTTTGTGTGATTTTTCATCATCATAGTTGCAATT 550
 QY 481 GCACTACTGATTTTATCAGGAGTCTGGCAACGTAGAGAAGAACAAAGAACCACTCTGAA 540
 DB 551 GCACTACTGATTTTATCAGGAGTCTGGCAACGTAGAGAAGAACAAAGAACCACTCTGAA 610
 QY 541 GTGGATGACGCTGAAGATAGTGTGAAGAAACATGATCACAATTGAAAATGGCATCCCTCT 600
 DB 611 GTGGATGACGCTGAAGATAGTGTGAAGAAACATGATCACAATTGAAAATGGCATCCCTCT 670
 QY 601 GATCCCCCTGGACATGAAGG-GGGCATATTATATGATGCCCTTCATGACAGAGATGAGAG 659
 DB 671 GATCCCCCTGGACATGAAGGAGGAGCATATTATATGATGCCCTTCATGACAGAGATGAGAG 730
 QY 660 CTCAACCCCTCTCTGAAGGCTGTGTCTCTCTCAAGAAATTAACATTTGTTCTG 719
 DB 731 CTCAACCCCTCTCTGAAGGCTGTGTCTCTCTCAAGAAATTAACATTTGTTCTG 790
 QY 720 TGTGACTGCTGACATCTCTGAATAACCAAGAGCAGATCATATATTTTGTTCACCAATCT 779
 DB 791 TGTGACTGCTGACATCTCTGAATAACCAAGAGCAGATCATATATTTTGTTCACCAATCT 850
 QY 780 TCTTTTGTATTAATTTTGAATGCTTGAAGTGAAGAAAGCAATCAATTATACCAACCA 839
 DB 851 TCTTTTGTATTAATTTTGAATGCTTGAAGTGAAGAAAGCAATCAATTATACCAACCA 910
 QY 840 CACCACTGAATCATAGCTATTCAAGCTCAAAATATTCTAAATATTTTCTGACAGT 899
 DB 911 CACCACTGAATCATAGCTATTCAAGCTCAAAATATTCTAAATATTTTCTGACAGT 970
 QY 900 ATAGTATATAATGTGTGATGCTATTGTTGATTAATGCAATTTTGAAT 959

DB 971 ATAGTATATAATGTCATGTCGATTTGTAGTATTGATTTAAGCATTTTGAAT 1030
 QY 960 AAGATCAGCATATGATATATTTTCAACCTTCAAGACCTAAGGAAAATTAATTTCC 1019
 DB 1031 AAGATCAGCATATGATATATTTTCAACCTTCAAGACCTAAGGAAAATTAATTTCC 1090
 QY 1020 AGTGAAGATACATATATATGTTGAGAAATCATGAAATGATCCTTTTGAAGATC 1079
 DB 1091 AGTGAAGATACATATATATGTTGAGAAATCATGAAATGATCCTTTTGAAGATC 1150
 QY 1080 ACTTATATCACTCTGATATATGACTTAAGTAAACAAAGTGAAGTAAATTTGTAATGG 1139
 DB 1151 ACTTATATCACTCTGATATATGACTTAAGTAAACAAAGTGAAGTAAATTTGTAATGG 1210
 QY 1140 ATGATTAATAATGAAATTAATCTCATATACAGGATGAAATTTATCCTGTTATCACACCAAC 1199
 DB 1211 ATGATTAATAATGAAATTAATCTCATATACAGGATGAAATTTATCCTGTTATCACACCAAC 1270
 QY 1200 AGTGAATATATATTTTCTGAATATCAAGCCCTAATAGACAATTTCTATTGTTGACCAT 1259
 DB 1271 AGTGAATATATATTTTCTGAATATCAAGCCCTAATAGACAATTTCTATTGTTGACCAT 1330
 QY 1260 TTCTAACAATTTGTAAAGTCCAAATCTGTCTAATCTTAATAAGTAAATCATCTCTTT 1319
 DB 1331 TTCTAACAATTTGTAAAGTCCAAATCTGTCTAATCTTAATAAGTAAATCATCTCTTT 1390
 QY 1320 TAAAAAATGAAAAAATGAAAAA 1346
 DB 1391 TGATTGTGAAAAAATGAAAAA 1417

RESULT 211

ADBL1650
 ID ADBL1650 standard; cDNA; 1447 BP.

XX AC ADBL1650;

XX DT 29-JAN-2004 (first entry)

XX DB Human secreted polypeptide cDNA #12.

XX KW Secreted protein; cancer; liver disorder; hepatitis; neural disorder;

XX KM Alzheimer's disease; human; ss; gene.

XX OS Synthetic.

XX OS Homo sapiens.

XX PN US2003100051-A1.

XX PD 29-MAY-2003.

XX PF 10-SEP-2001; 2001US-00948783.

XX PR 12-MAY-1998; 98US-0085093P.

XX PR 12-MAY-1998; 98US-0085094P.

XX PR 12-MAY-1998; 98US-0085105P.

XX PR 12-MAY-1998; 98US-0085180P.

XX PR 18-MAY-1998; 98US-0085906P.

XX PR 18-MAY-1998; 98US-0085920P.

XX PR 18-MAY-1998; 98US-0085921P.

XX PR 18-MAY-1998; 98US-0085922P.

XX PR 18-MAY-1998; 98US-0085923P.

XX PR 18-MAY-1998; 98US-0085924P.

XX PR 18-MAY-1998; 98US-0085925P.

XX PR 18-MAY-1998; 98US-0085927P.

XX PR 18-MAY-1998; 98US-0085928P.

XX PR 06-MAY-1999; 99US-0085928P.

XX PR 10-NOV-1999; 99US-00437658.

XX PR 11-SEP-2000; 2000US-0231846P.

XX PR 28-JUN-2001; 2001US-00892877.

XX PA (RUBEN S M.

XX PA (FLORENCE K A.

| | Key | Location/Qualifiers |
|--------|---|---|
| FH CDS | 71..739 | |
| PT | /tag= a | |
| PT | /note= "secreted protein" | |
| PX | | |
| PN | MO9832853-A2. | |
| PD | 30-JUL-1998. | |
| PF | 23-JAN-1998; 98WO-US001396. | |
| PR | 24-JAN-1997; 97US-00788789. | |
| PA | (GEMV) GENETICS INST INC. | |
| PI | Jacobs K, McCoy JM, Lavallie ER, Racie LA, Merberg D, Treacy M; | |
| PI | Spaulding V, Agostino MJ; | |
| PX | | |
| DR | WPI; 1998-427949/36. | |
| PS | P-PSDB; AAW29670. | |
| PT | New isolated polynucleotide(s) and secreted proteins - isolated from | |
| PT | human foetal kidney, adult brain, adult salivary gland, foetal brain and | |
| PT | adult testes cDNA libraries. | |
| PX | | |
| PS | Claim 16; Page 64-65; 109pp; English. | |
| CC | The sequence is that of encoding a secreted protein. Such a protein can | |
| CC | have biological activities, e.g. nutritional activity, cytokine and cell | |
| CC | proliferation/differentiation activity, immune stimulating or suppressing | |
| CC | activity, haematopoiesis regulating activity, tissue growth activity, | |
| CC | activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic | |
| CC | and thrombolytic activity, receptor/ligand activity, anti-inflammatory | |
| CC | activity, cadherin/tumour invasion suppressor activity, tumour inhibition | |
| CC | activity, and other activities | |
| XK | | |
| SQ | Sequence 1401 BP; 458 A; 258 C; 251 G; 434 T; 0 U; 0 Other; | |
| | Query Match | 98.2%; Score 1321.8; DB 2; Length 1401; |
| | Best Local Similarity | 99.8%; Pred. No. 1.3e-257; |
| | Matches 1334; Conservative | 0; Mismatches 2; Indels 1; Gaps 1; |
| OY | 1 GAAGAATGTGTGGCTCTTTTCTGTGAGTGACCATTCATGCTGAACCTGTCAA | 60 |
| DB | 65 GAAGAATGTGTGGCTCTTTTCTGTGAGTGACCATTCATGCTGAACCTGTCAA | 124 |
| OY | 61 CCAGGTGCAGAAATGCTTTTAAGTAGACTTAGTATCAGAACAGCTCTGGAGATAAA | 120 |
| DB | 125 CCAGGTGCAGAAATGCTTTTAAGTAGAGACTTAGTATCAGAACAGCTCTGGAGATAAA | 184 |
| OY | 121 GCATATGCCCTGGGATACCAGTAGAATACCTCTCAAGCGATGGTAGCTTCTCCATG | 180 |
| DB | 185 GCATATGCCCTGGGATACCAGTAGAATACCTCTCAAGCGATGGTAGCTTCTCCATG | 244 |
| OY | 181 AGAAAGTTCACAAGAGAGAACAGAAATTGCCATGTCTTCTTGAATGTAACC | 240 |
| DB | 245 AGAAAGTTCACAAGAGAGAACAGAAATTGCCATGTCTTCTTGAATGTAACC | 304 |
| OY | 241 CAGAGGTATCATTCGGTTGTGTGTACAGACCTTCAAAAAATCACACCTTCTGCT | 300 |
| DB | 305 CAGAGGTATCATTCGGTTGTGTGTACAGACCTTCAAAAAATCACACCTTCTGCT | 364 |
| OY | 301 GTTGAGGTGCAATCAGCCATAGAAAGAACAGAACCGGATCAACATGCTTCTTCTA | 360 |
| DB | 365 GTTGAGGTGCAATCAGCCATAGAAAGAACAGAACCGGATCAACATGCTTCTTCTA | 424 |
| OY | 361 AATGACCAAACTCTGGAATTTTTTAAAATCCCTTCCACACTTGACCAACCCATGACCA | 420 |
| DB | 425 AATGACCAAACTCTGGAATTTTTTAAAATCCCTTCCACACTTGACCAACCCATGACCA | 484 |
| OY | 421 TCTGTGCCCATCTGGAATTTATATATTGTGTGATATTGTGCATCATAGTTGCAATT | 480 |

| | | | |
|------------|---|---|------|
| Db | 485 | TTCTGTCCTCATCTGGAATATTAATTAATTTGGTGTGATATTTTGCAATCATCATAGTGTCAATT | 544 |
| QY | 481 | GCACCTCTGATTTTATACAGGGAATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAA | 540 |
| Db | 545 | GCACCTCTGATTTTATACAGGGAATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAA | 604 |
| QY | 541 | GTGAGTACGCTGAAGATAAGTGTGAAAAACATGATCACAATTGAAAAATGGCATCCCTCT | 600 |
| Db | 605 | GTGAGTACGCTGAAGATAAGTGTGAAAAACATGATCACAATTGAAAAATGGCATCCCTCT | 664 |
| QY | 601 | GATCCCTGGAACATGAAGGG-GGGCATATTAATGATGCCCTTCATGACAGAGATGAGAG | 659 |
| Db | 665 | GATCCCTGGAACATGAAGGAGGGCATATTAATGATGCCCTTCATGACAGAGATGAGAG | 724 |
| QY | 660 | CTCAACCTCTCTGAAGGCTGTGTCTGCTTCTCAAGAAATTAACATTTGTTCTG | 719 |
| Db | 725 | CTCAACCTCTCTGAAGGCTGTGTCTGCTTCTCAAGAAATTAACATTTGTTCTG | 784 |
| QY | 720 | TGTGACTGCTGAGCATCTCTGAATAACCAAGACAGATCATATATTTTGTTCACCAATCT | 779 |
| Db | 785 | TGTGACTGCTGAGCATCTCTGAATAACCAAGACAGATCATATATTTTGTTCACCAATCT | 844 |
| QY | 780 | TCTTTGTGTAATAATTTTGAATGTGCTTGAAGTGAAGAACATCAATTATACCCACCA | 839 |
| Db | 845 | TCTTTGTGTAATAATTTTGAATGTGCTTGAAGTGAAGAACATCAATTATACCCACCA | 904 |
| QY | 840 | CACCACTGAATCATTAAGCTATTCAAGACTCAAAATATTCTAAAAATATTTTCTGACAGT | 899 |
| Db | 905 | CACCACTGAATCATTAAGCTATTCAAGACTCAAAATATTCTAAAAATATTTTCTGACAGT | 964 |
| QY | 900 | ATAGTGTATAAATGTGTCATGTGTATTTGTAGTTATGTATTTAAGCATTTTGAAGAT | 959 |
| Db | 965 | ATAGTGTATAAATGTGTCATGTGTATTTGTAGTTATGTATTTAAGCATTTTGAAGAT | 1024 |
| QY | 960 | AAGATCAGGCATATGTATATATTTTTCACACTTCAAGACCTAAGGAAAAATAAATTTTCC | 1019 |
| Db | 1025 | AAGATCAGGCATATGTATATATTTTTCACACTTCAAGACCTAAGGAAAAATAAATTTTCC | 1084 |
| QY | 1020 | AGTGGAGATACATATAATATGTGTAGAAATCATTTGAAATGATCCTTTTGAAGATC | 1079 |
| Db | 1085 | AGTGGAGATACATATAATATGTGTAGAAATCATTTGAAATGATCCTTTTGAAGATC | 1144 |
| QY | 1080 | ACTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAAGTAAATTTATTTGTAATGG | 1139 |
| Db | 1145 | ACTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAAGTAAATTTATTTGTAATGG | 1204 |
| QY | 1140 | ATGATATAAAATGGAATTAATCATATACAGGCTGAATTTTATCTGTATACACCAAC | 1199 |
| Db | 1205 | ATGATATAAAATGGAATTAATCATATACAGGCTGAATTTTATCTGTATACACCAAC | 1264 |
| QY | 1200 | AGTGAATATATATTTTCTGAATATCAGCCCTAATAGGACATTTCTATTTGTGACCAT | 1259 |
| Db | 1265 | AGTGAATATATATTTTCTGAATATCAGCCCTAATAGGACATTTCTATTTGTGACCAT | 1324 |
| QY | 1260 | TTCTACAAATTTGTAAAGTCCCAATCTGTGCTAATTAATAAGTAAATCATCTCTTTT | 1319 |
| Db | 1325 | TTCTACAAATTTGTAAAGTCCCAATCTGTGCTAATTAATAAGTAAATCATCTCTTTT | 1384 |
| QY | 1320 | TAAAAAATAAAAAAT 1336 | |
| Db | 1385 | AAAAAATAAAAAAT 1401 | |
| RESULT 213 | | | |
| ID | AAF94470 | standard; cDNA; 1347 BP. | |
| XX | AAF94470; | | |
| XX | 04-JUN-2001 | (first entry) | |
| XX | Human hydrophobic domain containing protein clone HP10720 cDNA #84. | | |
| XX | | | |

| | | | |
|----|------|--|------|
| QY | 959 | TAAAGATCAGGCATATGTATATATTTTCACACTTCAAAAGACCTAAGGAAAAATAAATTTTC | 1018 |
| DB | 381 | TAAAGATCAGGCATATGTATATATTTTCACACTTCAAAAGACCTAAGGAAAAATAAATTTTC | 322 |
| QY | 1019 | CAGTGGAGAAATACATATATATATGTGTAGAAATCATTGAAATGGATCCTTTTGAAGAT | 1078 |
| DB | 321 | CAGTGGAGAAATACATATATATATGTGTAGAAATCATTGAAATGGATCCTTTTGAAGAT | 262 |
| QY | 1079 | CACCTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAGAGTAATTATTTGTAATG | 1138 |
| DB | 261 | CACCTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAGAGTAATTATTTGTAATG | 202 |
| QY | 1139 | GATGGATAAAAATGGAATTACTCATATACAGGGTGAATTTTATCTGTATACACCAA | 1198 |
| DB | 201 | GATGGATAAAAATGGAATTACTCATATACAGGGTGAATTTTATCTGTATACACCAA | 142 |
| QY | 1199 | CAGTTGATTATATATTTTCTGAATATCAGCCCTAATAGACAACTCTAATTGTGACCA | 1258 |
| DB | 141 | CAGTTGATTATATATTTTCTGAATATCAGCCCTAATAGACAACTCTAATTGTGACCA | 82 |
| QY | 1259 | TTTCTACAATTTGTAAAAGTCCAATCTGTGCTACTTAATAAGTATAATCATCTCTT | 1318 |
| DB | 81 | TTTCTACAATTTGTAAAAGTCCAATCTGTGCTACTTAATAAGTATAATCATCTCTT | 22 |
| QY | 1319 | TTAAAAAATTTTTTTTTTTTTTTT | 1339 |
| DB | 21 | TTGATTGTGAAAAAATTTTTTTTTTTT | 1 |

| RESULT | 216 |
|--------|--|
| ID | AAK97957 standard; DNA; 1356 BP. |
| XX | AAK97957 |
| AC | AAK97957; |
| XX | |
| DT | 17-SEP-1999 (first entry) |
| XX | |
| DE | Human secreted protein gene 42. |
| XX | |
| KW | Human; secreted protein; cancer; tumour; developmental abnormality; |
| KW | foetal deficiency; blood disorder; immune system disorder; inflammation; |
| KW | autoimmune disease; allergy; Alzheimer's disease; cognitive disorder; |
| KW | schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder; |
| KW | atherosclerosis; diabetes; cardiovascular disorder; kidney disorder; |
| KW | digestive disorder; endocrine disorder; infection; AIDS; SS. |
| XX | |
| OS | Homo sapiens. |
| XX | |
| PN | WO9931117-A1. |
| XX | |
| PD | 24-JUN-1999. |
| XX | |
| PF | 17-DEC-1998; 98MO-US027059. |
| XX | |
| PR | 18-DEC-1997; 97US-0068006P. |
| PR | 18-DEC-1997; 97US-0068007P. |
| PR | 18-DEC-1997; 97US-0068008P. |
| PR | 18-DEC-1997; 97US-0068053P. |
| PR | 18-DEC-1997; 97US-0068054P. |
| PR | 18-DEC-1997; 97US-0068057P. |
| PR | 18-DEC-1997; 97US-0068064P. |
| PR | 18-DEC-1997; 97US-0070923P. |
| PR | 19-DEC-1997; 97US-0068169P. |
| PR | 19-DEC-1997; 97US-0068365P. |
| PR | 19-DEC-1997; 97US-0068367P. |
| PR | 19-DEC-1997; 97US-0068368P. |
| PR | 19-DEC-1997; 97US-0068369P. |
| XX | |
| PA | (HUMA-) HUMAN GENOME SCI INC. |
| XX | |
| PI | Moore PA, Ruben SM, Carter KC, Shi Y, Rosen CA, Soppet DR; |
| PI | Kyaw H, Wei Y, Florence K, Duan RD, Florence C, Greene JM, Feng P; |

PI Ferrie AM, Yu G, Janat F, Ni J;
 XX
 DR WPI; 1999-418749/35.
 DR P-PSDB; AAY36265.
 XX
 PT
 PS New isolated human genes encoding secreted polypeptides.
 XX
 PS Claim 1; Page 296-297; 537pp; English.
 XX
 CC AAX97916 to AAX98029 represent 110 isolated human secreted protein genes.
 CC AAY36224 to AAY36727 represent the secreted proteins encoded by the 110
 CC human genes. The genes and their corresponding secreted polypeptides are
 CC useful for preventing, treating or ameliorating medical conditions, e.g.
 CC by protein or gene therapy. Also pathological conditions can be diagnosed
 CC by determining the amount of the new polypeptides in a sample or by
 CC determining the presence of mutations in the new genes. Specific uses are
 CC described for each of the 110 genes, based on which tissues they are most
 CC highly expressed in, and include developing products for the diagnosis or
 CC treatment of cancer, tumours, developmental abnormalities and foetal
 CC deficiencies, blood disorders, diseases of the immune system, autoimmune
 CC diseases, inflammation, allergies, Alzheimer's and cognitive disorders,
 CC schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders,
 CC atherosclerosis, diabetes, cardiovascular disorders, kidney disorders,
 CC digestive/endocrine disorders, infections and AIDS. The polypeptides are
 CC also useful for identifying their binding partners. The sequences given
 CC in AAX97907 to AAX97915 and AAY36223 are used in the exemplification of
 CC the present invention
 XX
 SQ Sequence 1356 BP; 460 A; 252 C; 240 G; 403 T; 0 U; 1 Other;

| Query Match | 97.0%; | Score 1305; | DB 2; | Length 1356; | |
|-----------------------|--------------|---|----------------|--------------|---------|
| Best Local Similarity | 99.0%; | Pred. No. 3.1e-254; | | | |
| Matches 1333; | Conservative | 0; | Mismatches 11; | Indels 2; | Gaps 2; |
| Qy | 1 | GAAGAATGTTGTGGCTGCTCTTTTTCGTGTAAGTCTGCCATTCATGCTGAAGTCTGTCAA | 60 | | |
| Db | 12 | GAAGAATGTTGTGGCTGCTCTTTTTCGTGTAAGTCTGCCATTCATGCTGAAGTCTGTCAA | 71 | | |
| Qy | 61 | CCAGGTGCAGAAATATGCTTTAAAGTGAGACTTAGTATCAAGAACAGCTCTGGAGATAAA | 120 | | |
| Db | 72 | CCAGGTGCAGAAATATGCTTTAAAGTGAGACTTAGTATCAAGAACAGCTCTGGAGATAAA | 131 | | |
| Qy | 121 | GCATATGCGCTGGGATACCAATGAAGATACCTCTCAAGGATGTAGCTTCTCCATG | 180 | | |
| Db | 132 | GCATATGCGCTGGGATACCAATGAAGATACCTCTCAAGGATGTAGCTTCTCCATG | 191 | | |
| Qy | 181 | AGAAAGTTCCTCCACAGAGACCAAGAAATTTCCATGTCTACTTTGCAATGTAACC | 240 | | |
| Db | 192 | AGAAAGTTCCTCCACAGAGACCAAGAAATTTCCATGTCTACTTTGCAATGTAACC | 251 | | |
| Qy | 241 | CAGAGGGTATCATTCGTGTGTTGNGTTACAGACCTTCAAAAAATCACACCTTCTGTCT | 300 | | |
| Db | 252 | CAGA-GGTATCATTCGTGTGTTGNGTTACAGACCTTCAAAAAATCACACCTTCTGTCT | 310 | | |
| Qy | 301 | GTTGAGGTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACAATGCCCTTCTTCTA | 360 | | |
| Db | 311 | GTTGAGGTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACAATGCCCTTCTTCTA | 370 | | |
| Qy | 361 | AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCATGAGACCA | 420 | | |
| Db | 371 | AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCATGAGACCA | 430 | | |
| Qy | 421 | TCTGTGCCCATCTGATTAATTAATTTGTGTGATATTGTCATCATAGTTGCAATT | 480 | | |
| Db | 431 | TCTGTGCCCATCTGATTAATTAATTTGTGTGATATTGTCATCATAGTTGCAATT | 490 | | |
| Qy | 481 | GCACTACTGATTTTATCAGGGAATCTGGCAACGTAGAAGAAAGAACAAAGAACCACTCTGAA | 540 | | |
| Db | 491 | GCACTACTGATTTTATCAGGGAATCTGGCAACGTAGAAGAAAGAACAAAGAACCACTCTGAA | 550 | | |
| Qy | 541 | GTCGATGACGCTGAAGATTAAGTGTGAAGAACATGATCACAAATTGAATAATGGCATCCCTCT | 600 | | |
| Db | 551 | GTCGATGACGCTGAAGATTAAGTGTGAAGAACATGATCACAAATTGAATAATGGCATCCCTCT | 610 | | |

| | | | |
|----|------|---|------|
| QY | 601 | GATCCCCCTGACATGAAGGG - GGGCATATTAAATGATCCCTTCATGACAGAGATGAGAG | 659 |
| Db | 611 | GATCCCCCTGACATGAAGGGAGGGCATATTAAATGATCCCTTCATGACAGAGATGAGAG | 670 |
| QY | 660 | CTCACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCCTCAAGAAATTAACATTTGTTCTG | 719 |
| Db | 671 | CTCACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCCTCAAGAAATTAACATTTGTTCTG | 730 |
| QY | 720 | TGTGACTGCTGAGCATCCTGAATAACCAAGAGCAGATCATATATTTGTTTCACCATCT | 779 |
| Db | 731 | TGTGACTGCTGAGCATCCTGAATAACCAAGAGCAGATCATATATTTGTTTCACCATCT | 790 |
| QY | 780 | TCTTTTGTAATAAATTTTGAATGTCCTTGAAGTGAAGCAATCAATTAACCCACCAA | 839 |
| Db | 791 | TCTTTTGTAATAAATTTTGAATGTCCTTGAAGTGAAGCAATCAATTAACCCACCAA | 850 |
| QY | 840 | CACCACTGAATCATTAAGCTATTCAAGACTCAAAATATTCTAAATATTTTCTGACAGT | 899 |
| Db | 851 | CACCACTGAATCATTAAGCTATTCAAGACTCAAAATATTCTAAATATTTTCTGACAGT | 910 |
| QY | 900 | ATAGTGTAATAATGTGTCATGTCGTAATTTTGTAAGTTATTTGAAGCAATTTTAGAAAT | 959 |
| Db | 911 | ATAGTGTAATAATGTGTCATGTCGTAATTTTGTAAGTTATTTGAAGCAATTTTAGAAAT | 970 |
| QY | 960 | AAGATCAGGCATATGTATATATTTTTCACACTTCGAAGACCTTAAGSAAAAATAATTTTCC | 1019 |
| Db | 971 | AAGATCAGGCATATGTATATATTTTTCACACTTCGAAGACCTTAAGSAAAAATAATTTTCC | 1030 |
| QY | 1020 | AGTGAGAAATACATATAATATGCTGTAAGAAATCATGAAATGATCCTTTTGAAGATC | 1079 |
| Db | 1031 | AGTGAGAAATACATATAATATGCTGTAAGAAATCATGAAATGATCCTTTTGAAGATC | 1090 |
| QY | 1080 | ACTTATATCACTCTGTATATGACTAAGTAAACAAGAAGTGAAGTAATTTGTAATGG | 1139 |
| Db | 1091 | ACTTATATCACTCTGTATATGACTAAGTAAACAAGAAGTGAAGTAATTTGTAATGG | 1150 |
| QY | 1140 | ATGGAATAAAATGGAATTACTGCATATA CAGGGTGAATTTTATCCTGTATCACACCAAC | 1199 |
| Db | 1151 | ATGGAATAAAATGGAATTACTGCATATA CAGGGTGAATTTTATCCTGTATCACACCAAC | 1210 |
| QY | 1200 | AGTGATTAATATATTTTCTGAATATCAGCCCTAAATAGACAATTTCTATTTGTGACCAT | 1259 |
| Db | 1211 | AGTGATTAATATATTTTCTGAATATCAGCCCTAAATAGACAATTTCTATTTGTGACCAT | 1270 |
| QY | 1260 | TTCTACAAATTTGTAAAGTCCAAATCTGTGCTAACTTAATAAGTAATATCATCTCTTTT | 1319 |
| Db | 1271 | TTCTACAAATTTGTAAAGTCCAAATCTGTGCTAACTTAATAAGTAATATCATCAAAAAA | 1330 |
| QY | 1320 | TAATAAAAAAAAAAAAAAAAAAAAAA 1345 | |
| Db | 1331 | AAAAAAAAAAAAAAAAAAAAAAAAAA 1356 | |

RESULT 217
ADA56545
ID ADA56545 standard; DNA; 1356 BP.

ADA56545;

DT 20-NOV-2003 (first entry)

DB Gene encoding human secreted protein #269.

KW immunosuppressive; antiinflammatory; antiasthmatic; antiallergic;
KW cytostatic; cerebroprotective; neuroprotective; nootropic;
KW cardiovascular; antiarteriosclerotic; gene therapy;
KW human secreted protein; immune disorder; inflammation;
KW respiratory disorder; cancer; CNS disorder; neurodegenerative disorders;
KW inflammatory bowel disease; nephritis; Crohn's disease; asthma; allergy;;
KW multiple sclerosis; ischaemic brain injury; Parkinson's disease;
KW Alzheimer's disease; atherosclerosis; myocarditis; chromosome mapping;
KW triple helix formation; antisense gene therapy; forensic biology; ds;

XM gene.
 XX
 OS Homo sapiens.
 XX
 PN WO2002102994-A2.
 XX
 PD 27-DEC-2002.
 XX
 PF 19-MAR-2002; 2002WO-US008278.
 XX
 PR 21-MAR-2001; 2001US-0277340P.
 PR 19-JUL-2001; 2001US-0306171P.
 PR 13-NOV-2001; 2001US-0331287P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Ruben SM;
 XX
 DR WPI; 2003-167512/16.
 P-PSDB; ADA57438.

PT New human secreted polypeptides and polynucleotides, useful for PT diagnosing, treating or preventing e.g. immune disorders, inflammatory PT conditions, respiratory disorders, cancers, CNS disorders, or PT neurodegenerative disorders.

PS Claim 21; SBQ ID NO 734; 1754pp; English.

The invention relates to 592 new human secreted polypeptides useful for diagnosing, treating or preventing e.g. immune disorders, inflammatory conditions, respiratory disorders, cancers, CNS disorders, or neurodegenerative disorders, or polypeptides comprising an amino acid sequence at least 95% identical to the new sequences. The polypeptides, antibodies or antibody fragments that bind to the polypeptides, nucleic acids encoding the polypeptides, agonists or antagonists that binds to the polypeptide, are useful in preparing diagnostic or pharmaceutical compositions for diagnosing, treating or preventing an e.g. immune disorders, inflammatory conditions (e.g. inflammatory bowel disease, nephritis or Crohn's disease), respiratory disorders (e.g. asthma and allergy), cancers (e.g. gastric, ovarian or lung cancer), CNS disorders (e.g. multiple sclerosis or ischaemic brain injury), neurodegenerative disorders (e.g. Parkinson's disease or Alzheimer's disease), and cardiovascular disorders (e.g. atherosclerosis or myocarditis). The polynucleotides are useful for chromosome identification, chromosome mapping, for controlling gene expression through triple helix formation or antisense DNA or RNA, in gene therapy, for identifying individuals from minute biological samples, in forensic biology, and as hybridization probes. The polypeptides are useful for as molecular weight markers on sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE) gels, to raise antibodies, for testing biological activities, and for treating or preventing neural disorders, immune system disorders, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal, proliferative and/or cancerous diseases. This sequence corresponds to a gene encoding one of the polypeptide of the invention. Note: The sequence data for this patent did form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

SQ Sequence 1356 BP; 460 A; 252 C; 240 G; 403 T; 0 U; 1 Other;

| | | | | |
|----------------------------|-------|---------------------|-----------|--------------|
| Query Match | 97.0% | Score 1305; | DB 7; | Length 1356; |
| Best Local Similarity | 99.0% | Pred. No. 3.1e-254; | | |
| Matches 1333; Conservative | 0; | Mismatches 11; | Indels 2; | Gaps 2 |

| | | | |
|----|-----|--|-----|
| QY | 1 | GAAAGATGTTGTCGCTGCTCTTTTCTGTGACTGCCATTCACTGAACTCTGTCA | 60 |
| | | | |
| Db | 12 | GAAAGATGTTGTCGCTGCTCTTTTCTGTGACTGCCATTCACTGAACTCTGTCA | 71 |
| | | | |
| QY | 61 | CCAGGTGCAGAAATGCTTTTAAAGTGAAGTTAGTATCAGAACAGCTCTGGAGATAA | 120 |
| | | | |
| Db | 72 | CCAGGTGCAGAAATGCTTTTAAAGTGAAGTTAGTATCAGAACAGCTCTGGAGATAA | 131 |
| | | | |
| QY | 121 | GCATATGCTCGGATACCAATGAGATACCTCTTCAAGCGATGTAAGTTTCTCCATG | 180 |

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Db      132 GCATATGCTGGGATACCAATGAAGATACCTTCAMAGCATGAGCTTTCCTCATG 191
Qy      181 AGAAAAGTCCCAACAGAGCAACAGAAATTTCCCATGTCCTACTTGCAATGFAACC 240
Db      192 AGAAAAGTCCCAACAGAGCAACAGAAATTTCCCATGTCCTACTTGCAATGFAACC 251
Qy      241 CAGAGGTAATCATTTCTGTTGTGTGTACAGACCTTCMAAAAATCACACCCTTCTGCT 300
Db      252 CAGA-GGTATCATTTCTGTTGTGTGTACAGACCTTCMAAAAATCACACCCTTCTGCT 310
Qy      301 GTGAGGTCAATCAGCCATAGAATGMAACAGAACCGGATCAACATGCTTCTTCTA 360
Db      311 GTGAGGTCAATCAGCCATAGAATGMAACAGAACCGGATCAACATGCTTCTTCTA 370
Qy      361 AATGACCAAACTCTGMAATTTTAAAAATCCCTTCACACTTGCAACCCCATGGAACCA 420
Db      371 AATGACCAAACTCTGMAATTTTAAAAATCCCTTCACACTTGCAACCCCATGGAACCA 430
Qy      421 TCTGTGCCCATCTGGAATTAATTAATTTGTGTGATATTGTCATCATAGTTCGAATT 480
Db      431 TCTGTGCCCATCTGGAATTAATTAATTTGTGTGATATTGTCATCATAGTTCGAATT 490
Qy      481 GCACTACTGATTTTATCAGGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAA 540
Db      491 GCACTACTGATTTTATCAGGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAA 550
Qy      541 GTGATGACGCTGAAGATAAGTGTGMAAAACATGATCACAATGMAAATGCAATCCCTCT 600
Db      551 GTGATGACGCTGAAGATAAGTGTGMAAAACATGATCACAATGMAAATGCAATCCCTCT 610
Qy      601 GATCCCTGGAATGAAGGG-GGGCATATTAAATGATGCTTCATGACAGAGATGAGAGG 659
Db      611 GATCCCTGGAATGAAGGGGAGGCATATTAAATGATGCTTCATGACAGAGATGAGAGG 670
Qy      660 CTCAACCCCTCTCTGAAGGGGCTGTGTTCTGCTCCCTCAAGAAATTAACATTTGTTCTG 719
Db      671 CTCAACCCCTCTCTGAAGGGGCTGTGTTCTGCTCCCTCAAGAAATTAACATTTGTTCTG 730
Qy      720 TGTGACTGCTGAGCATCTCTGAATAATACCAAGACAGATCATATATTTGTTGACCATTTCT 779
Db      731 TGTGACTGCTGAGCATCTCTGAATAATACCAAGACAGATCATATATTTGTTGACCATTTCT 790
Qy      780 TCTTTTGTATAAATTTTGAATGTGCTTGAAGTGAAGAAAGCAATCAATTATACCAACAA 839
Db      791 TCTTTTGTATAAATTTTGAATGTGCTTGAAGTGAAGAAAGCAATCAATTATACCAACAA 850
Qy      840 CACCACCTGAATCATAGCTATTACGACTCAAAAATATTCTAAAATATTTTCTGACAGT 899
Db      851 CACCACCTGAATCATAGCTATTACGACTCAAAAATATTCTAAAATATTTTCTGACAGT 910
Qy      900 ATAGTGTATAAATGTGTGTCATGTGTATTTGTAGTTATGATTTAAGCATTTTGAAGAT 959
Db      911 ATAGTGTATAAATGTGTGTCATGTGTATTTGTAGTTATGATTTAAGCATTTTGAAGAT 970
Qy      960 AAGATCAGGATATGTATATATTTTTCACACTTCAAAAGACCTTAAGGAAAAATAATTTCC 1019
Db      971 AAGATCAGGATATGTATATATTTTTCACACTTCAAAAGACCTTAAGGAAAAATAATTTCC 1030
Qy      1020 AGTGAAGATACATATAATATGTGTGTAAGAAATCATTTGAAAATGATCCTTTTGAAGATC 1079
Db      1031 AGTGAAGATACATATAATATGTGTGTAAGAAATCATTTGAAAATGATCCTTTTGAAGATC 1090
Qy      1080 ACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGATTAATTTGTAATGCG 1139
Db      1091 ACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGATTAATTTGTAATGCG 1150
Qy      1140 ATGATATAAATGGAATTATCATATACAGGGTGAATTTTATCTGTATACACCAAC 1199
Db      1151 ATGATATAAATGGAATTATCATATACAGGGTGAATTTTATCTGTATACACCAAC 1210
Qy      1200 AGTGATTAATATTTTCTGAATATCAGCCCTTAATAGACAATTTCTATTGTGACCAT 1259

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Db      1211 AGTGATTAATATATTTTCTGNATATCAGCCCTAATAGACAAATCTATTGTTGACCAT 1270
Qy      1260 TTCTACAATTTGTAAGTCCAACTGTGCTAATTAATAAGTAAATCATCTCTTTT 1319
Db      1271 TTCTACAATTTGTAAGTCCAACTGTGCTAATTAATAAGTAAATCATCTCAAAA 1330
Qy      1320 TAAAAAATTTTAAAAAATTTTAAAAA 1345
Db      1331 AAAAAAATTTTAAAAAATTTTAAAAA 1356

RESULT 218
ADA40381
ID      ADA40381 standard; cDNA; 1356 BP.
XX
AC      ADA40381;
XX
DT      20-NOV-2003 (first entry)
XX
DE      Human secreted protein encoding cDNA.
XX
KW      Human; secreted protein; cancer; hyperproliferative disorder;
KW      rheumatoid arthritis; autoimmune disorder; haematopoietic disorder;
KW      anaemia; allergic reaction; aschma; cardiovascular disorder;
KW      wound healing; cytostatic; immunosuppressive; nootropic; neuroprotective;
KW      antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory;
KW      vulnerary; cardiant; gene therapy; ss.
XX
OS      Homo sapiens.
XX
PN      WO2002102993-A2.
XX
PD      27-DEC-2002.
XX
PF      19-MAR-2002; 2002WO-US008123.
XX
PR      21-MAR-2001; 2001US-0277340P.
PR      19-JUL-2001; 2001US-0306171P.
PR      13-NOV-2001; 2001US-0331287P.
XX
PA      (HUMA-) HUMAN GENOME SCI INC.
XX
PI      Rosen CA, Ruben SM;
XX
DR      WPI; 2003-175238/17.
XX
PT      New human secreted proteins and nucleic acid molecules, useful for
PT      preparing a diagnostic or pharmaceutical composition for diagnosing,
PT      preventing or treating cancer or other hyperproliferative disorder,
PT      asthma, allergies or AIDS.
XX
PS      Claim 9; SEQ ID NO 763; 3205pp; English.
XX
CC      The invention relates to novel genes ADA39629-ADA40565 and proteins
CC      ADA40566-ADA41501 for human secreted proteins, useful for preventing,
CC      treating or ameliorating medical conditions e.g. by protein or gene
CC      therapy. The polypeptides, nucleic acid molecules, antibodies or their
CC      fragments, and agonists or antagonists that bind to the polypeptide are
CC      useful for preparing a diagnostic or pharmaceutical composition for
CC      diagnosing or treating cancer or other hyperproliferative disorder. The
CC      polypeptides and nucleic acid molecules are also useful for detecting,
CC      preventing, diagnosing, prognosticating, treating or ameliorating cancer
CC      or other hyperproliferative disorders including neoplasms, autoimmune
CC      disorders (e.g. diabetes, rheumatoid arthritis, systemic lupus
CC      erythematosus, multiple sclerosis, autoimmune thyroiditis or haemolytic
CC      anaemia), haematopoietic or haematological disorders (e.g. anaemia,
CC      thrombocytopenia), allergic reactions including asthma or eczema,
CC      inflammatory disorders (e.g. ischaemia-reperfusion injury, inflammatory
CC      bowel disease or Crohn's disease), neurodegenerative disorders (e.g.
CC      Alzheimer's disease or Parkinson's disease), cardiovascular disorders
CC      (e.g. atherosclerosis, myocarditis), infectious diseases (bacterial,
CC      fungal or viral infections including HIV/AIDS), or wound healing and
CC      disorders of epithelial cell proliferation. The nucleic acids are also

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useful for chromosome identification, radiation hybrid mapping or long-range restriction mapping, as molecular weight markers, or as hybridization or diagnostic probes. The polypeptides and antibodies are useful for providing immunological probes for differential identification of the tissues immunohistochemistry assays. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 1356 BP; 460 A; 252 C; 240 G; 403 T; 0 U; 1 Other;

Query Match 97.0%; Score 1305; DB 7; Length 1356;

Best Local Similarity 99.0%; Pred. No. 3.1e-254;

Matches 1333; Conservative 0; Mismatches 11; Indels 2; Gaps 2;

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QY 1 GAAAGATGTTGGCTGCTCTTTTCTGGTACTGCCATTCAGTGAAGCTGCA 60
    |||||||
DB 12 GAAAGATGTTGGCTGCTCTTTTCTGGTACTGCCATTCAGTGAAGCTGCA 71
    |||||||
QY 61 CCAGGTGAGAAAATGCTTTTAAAGTGAAGCTTATGATCAGAACAGCTGGAGATAA 120
    |||||||
DB 72 CCAGGTGAGAAAATGCTTTTAAAGTGAAGCTTATGATCAGAACAGCTGGAGATAA 131
    |||||||
QY 121 GCATATGCTGGGATACCAATGAAGATACCTCTCAAGCGATGGTATCTTCATG 180
    |||||||
DB 132 GCATATGCTGGGATACCAATGAAGATACCTCTCAAGCGATGGTATCTTCATG 191
    |||||||
QY 181 AGAAAGTTCCTCCACAGAGACACAGAAATTTCCATGTCTACTTTGCAATGTAAC 240
    |||||||
DB 192 AGAAAGTTCCTCCACAGAGACACAGAAATTTCCATGTCTACTTTGCAATGTAAC 251
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QY 241 CAGAGGTATCATCTGTGTTGTGTGTAAGACCTCAAAAATACACCTTCCTGCT 300
    |||||||
DB 252 CAGA-GGTATCATCTGTGTTGTGTGTAAGACCTCAAAAATACACCTTCCTGCT 310
    |||||||
QY 301 GTTGAAGTGCAATCAGCCATAGAAGTGAACAGACCGATCAACATGCTTCTTCTA 360
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DB 311 GTTGAAGTGCAATCAGCCATAGAAGTGAACAGACCGATCAACATGCTTCTTCTA 370
    |||||||
QY 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCACTTGCAACCCATGAGCCCA 420
    |||||||
DB 371 AATGACCAAACTCTGGAATTTTAAATCCCTTCACTTGCAACCCATGAGCCCA 430
    |||||||
QY 421 TCTGTGCCCATCTGATATTATATTGCTGATATTTTGCATCATCATAGTTGCAATT 480
    |||||||
DB 431 TCTGTGCCCATCTGATATTATATTGCTGATATTTTGCATCATCATAGTTGCAATT 490
    |||||||
QY 481 GCCTACTGATTTTATCAGGGATCTGGCAACGTAGAGAAAAGCAAGAACCATCTGAA 540
    |||||||
DB 491 GCCTACTGATTTTATCAGGGATCTGGCAACGTAGAGAAAAGCAAGAACCATCTGAA 550
    |||||||
QY 541 GTGATGACGCTGAAGATAAGTGTGAAGAAATCATGATCACAATTGAAATGGCATCCCTCT 600
    |||||||
DB 551 GTGATGACGCTGAAGATAAGTGTGAAGAAATCATGATCACAATTGAAATGGCATCCCTCT 610
    |||||||
QY 601 GATCCCTCTGACATGAAGGG-GGGCATATTATGATGCTTCAAGAGAGATGAGAGG 659
    |||||||
DB 611 GATCCCTCTGACATGAAGGGAGGGCATATTATGATGCTTCAAGAGAGATGAGAGG 670
    |||||||
QY 660 CTGACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCTCAAGAAATTAACATTTGTTCTG 719
    |||||||
DB 671 CTGACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCTCAAGAAATTAACATTTGTTCTG 730
    |||||||
QY 720 TGTGACTGCTGAGCATCTGAATACCAAGAGAGATCATATATTTGTTTCAACATCT 779
    |||||||
DB 731 TGTGACTGCTGAGCATCTGAATACCAAGAGAGATCATATATTTGTTTCAACATCT 790
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QY 780 TCTTTTGTATTAATTTTGAATGTCTTGAAGTGAAGCAATCAATTAACCCACCA 839
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DB 791 TCTTTTGTATTAATTTTGAATGTCTTGAAGTGAAGCAATCAATTAACCCACCA 850
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QY 840 CACCACTGAATCATTAAGCTATTACGACTCAAAATATTCTAAATATTTTCTGACAGT 899
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DB 851 CACCACTGAATCATTAAGCTATTACGACTCAAAATATTCTAAATATTTTCTGACAGT 910
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    |||||||
DB 911 ATAGGTATTAATGTGTCATGTGGTATTTGTAGTTATGATTTAAGCATTTTGAAGAT 970
    |||||||
QY 960 AAGATCAGCATATGATATATTCTTCACTCAAGACCTTAAGGAAAATAAATTTTCC 1019
    |||||||
DB 971 AAGATCAGCATATGATATATTCTTCACTCAAGACCTTAAGGAAAATAAATTTTCC 1030
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QY 1020 AGTGAGATACATATATATGTGTAGAATCATGAATGATCCTTTTGAAGATC 1079
    |||||||
DB 1031 AGTGAGATACATATATATGTGTAGAATCATGAATGATCCTTTTGAAGATC 1090
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QY 1080 ACTTATACACTCTGTATATGACTAAGTAAACAAAGTGAAGTAAATTTGTAATGG 1139
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QY 1200 AGTTGATTAATATTTTCTGATATACAGCCCTTAATAGACAAATTTGTTGACCAT 1259
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DB 1211 AGTTGATTAATATTTTCTGATATACAGCCCTTAATAGACAAATTTGTTGACCAT 1270
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QY 1260 TTCTACAAATTTGTAAGTCCCAATCTGTCTAATTAATTAATTAATCATCTCTTT 1319
    |||||||
DB 1271 TTCTACAAATTTGTAAGTCCCAATCTGTCTAATTAATTAATTAATCATCTCAAAA 1330
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QY 1320 TAAAAAATTTTAAAAATTTTAAAAATTTTAAAAATTTTAAAAATTTTAAAAATTTT 1345
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DB 1331 AAAAAAATTTTAAAAATTTTAAAAATTTTAAAAATTTTAAAAATTTTAAAAATTTT 1356
    |||||||
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RESULT 219

ADA11594

ID ADA11594 standard; DNA; 1356 BP.

XX

AC ADA11594;

XX

DT 06-NOV-2003 (first entry)

XX

DE Human cDNA encoding a novel secreted protein, SEQ ID NO 122.

XX

KW cancer; inflammation; immune disorder; neurological disorder;

KW blood clotting disorder; food additive; food preservative;

KW storage capability; fat content; nutritional component; ds; gene; human.

XX

OS Homo sapiens.

XX

PN US2003055236-A1.

XX

PD 20-MAR-2003.

XX

PF 14-MAR-2002; 2002US-00097065.

XX

PR 18-DEC-1997; 97US-0068006P.

XX

PR 18-DEC-1997; 97US-0068007P.

XX

PR 18-DEC-1997; 97US-0068008P.

XX

PR 18-DEC-1997; 97US-0068053P.

XX

PR 18-DEC-1997; 97US-0068054P.

XX

PR 18-DEC-1997; 97US-0068057P.

XX

PR 18-DEC-1997; 97US-0068064P.

XX

PR 18-DEC-1997; 97US-0070923P.

XX

PR 19-DEC-1997; 97US-0068365P.

XX

PR 19-DEC-1997; 97US-0068367P.

XX

PR 19-DEC-1997; 97US-0068368P.

XX

PR 19-DEC-1997; 97US-0068369P.

XX

PR 17-DEC-1998; 98WO-US027059.

XX

PR 17-JUN-1999; 99US-00334595.

XX

| | |
|----|---|
| OS | Homo sapiens. |
| XX | |
| PN | WO200290526-A2. |
| XX | |
| PD | 14-NOV-2002. |
| XX | |
| PF | 19-MAR-2002; 2002WO-US008279. |
| XX | |
| PR | 21-MAR-2001; 2001US-0277340P. |
| PR | 19-JUL-2001; 2001US-0306171P. |
| PR | 13-NOV-2001; 2001US-0331287P. |
| XX | |
| PA | (HUMA-) HUMAN GENOME SCI INC. |
| XX | |
| PI | Rosen CA, Ruben SM; |
| XX | |
| DR | WPI; 2003-140218/13. |
| XX | |
| PT | New human secreted proteins and nucleic acid molecules, useful for |
| PT | preparing a diagnostic or pharmaceutical composition for diagnosing or |
| PT | treating allergic or asthmatic disorders, or related immediate |
| PT | hypersensitivity disorders. |
| PS | |
| XX | |
| PS | Claim 7; SEQ ID NO 234; 1323pp; English. |
| XX | |
| CC | The present invention relates to an isolated polypeptide or human |
| CC | secreted protein. The polypeptides, nucleic acid molecules, antibodies or |
| CC | their fragments, and agonists or antagonists that bind are useful for |
| CC | preparing a diagnostic or pharmaceutical composition for diagnosing or |
| CC | treating allergic or asthmatic disorders. The polypeptide is also useful |
| CC | for identifying a binding partner by contacting the polypeptide with a |
| CC | binding partner, and determining whether the binding partner increases or |
| CC | decreases the activity of the polypeptide. The polypeptides and nucleic |
| CC | acid molecules are also useful for detecting, preventing, diagnosing, |
| CC | prophylactically treating or ameliorating inflammatory disorders |
| CC | neoplastic diseases, wound healing and disorders of epithelial cell |
| CC | proliferation, immune disorders, cardiovascular disorders, blood-related |
| CC | disorders, infectious diseases, endocrine disorders, or gastrointestinal |
| CC | disorders. The nucleic acids are also useful for chromosome |
| CC | identification, radiation hybrid mapping or long-range restriction |
| CC | mapping, as molecular weight markers, or as hybridization or diagnostic |
| CC | probes. The polypeptides and antibodies are useful for providing |
| CC | immunological probes for differential identification of the tissues |
| CC | immunohistochemistry assays. The present sequence represents a human |
| CC | secreted protein encoding sequence. |
| XX | |
| XX | |
| SQ | Sequence 1356 BP; 460 A; 252 C; 240 G; 403 T; 0 U; 1 Other; |
| | |
| | Query Match 97.0%; Score 1305; DB 9; Length 1356; |
| | Best Local Similarity 99.0%; Pred. No. 3.1e-254; |
| | Matches 1333; Conservative 0; Mismatches 11; Indels 2; Gaps 2; |
| Oy | 1 GAAGAATGTTGGCTCCTCTTTTCTGTGAAGTGCCATTGATGCTGAACCTGTCAA 60 |
| Dd | 12 GAAGAATGTTGGCTCCTCTTTTCTGTGAAGTGCCATTGATGCTGAACCTGTCAA 71 |
| Oy | 61 CCAGGTGCAGAAAATGCTTTAAAGTAGACTTAAGTATCAGAACAGCTCTGGAGATAAA 120 |
| Dd | 72 CCAGGTGCAGAAAATGCTTTAAAGTAGACTTAAGTATCAGAACAGCTCTGGAGATAAA 131 |
| Oy | 121 GCATATGCCCTGGGATACCATAAGAAATACCTCTTCAAAGCGATGTAGCTTCTCCATG 180 |
| Dd | 132 GCATATGCCCTGGGATACCATAAGAAATACCTCTTCAAAGCGATGTAGCTTCTCCATG 191 |
| Oy | 181 AGAAAAAGTTCCCAACAGAGAAAGCAAGAAATTTCCCATGTCTACTTGGCAATGTAAAC 240 |
| Dd | 192 AGAAAAAGTTCCCAACAGAGAAAGCAAGAAATTTCCCATGTCTACTTGGCAATGTAAAC 251 |
| Oy | 241 CAGAGGGGTATCATTTCTGTTTGTGTTACAGACCCCTTCMAAANAATCACACCCCTTCTGCT 300 |
| Dd | 252 CAGA-GGTATCATTTCTGTTTGTGTTACAGACCCCTTCMAAANAATCACACCCCTTCTGCT 310 |
| Oy | 301 GTTGAGGTGCATATCAGCCATTAAGATGAACAAGAACCGGATCAACAATGCCCTTCTTCTA 360 |

| | | | |
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| Db | 311 | GTGAGGTGCAATCAGCCATAGAATGAACAGAACCGGATCAACATGCTCTTCTTA | 370 |
| Qy | 361 | AATGACCAAACTCTGAAATTTTAAAAAATCCCTTCCACACTTGCAACCACATGAGACCA | 420 |
| Db | 371 | AATGACCAAACTCTGAAATTTTAAAAAATCCCTTCCACACTTGCAACCACATGAGACCA | 430 |
| Qy | 421 | TCGTGCCCACTCGAATTATATATTTGGTGATATTTTGCAATCATAGTTCAAAT | 480 |
| Db | 431 | TCGTGCCCACTCGAATTATATATTTGGTGATATTTTGCAATCATAGTTCAAAT | 490 |
| Qy | 481 | GCACTACTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACAAAGAACATCTGAA | 540 |
| Db | 491 | GCACTACTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACAAAGAACATCTGAA | 550 |
| Qy | 541 | GTGAGTAGCCGTGAAGATAGTGTAAGAAACATGATCAAAATGAATGGCATCCCTCT | 600 |
| Db | 551 | GTGAGTAGCCGTGAAGATAGTGTAAGAAACATGATCAAAATGGCATCCCTCT | 610 |
| Qy | 601 | GATCCCTCTGCAATGAAGGG- GGGCATATTAATGATGCTTCATGACAGAGATGAGAG | 659 |
| Db | 611 | GATCCCTCTGCAATGAAGGGGCAATATTAATGATGCTTCATGACAGAGATGAGAG | 670 |
| Qy | 660 | CTCACCCTCTCTGAAAGGCTGTGTCTGCTTCTCAAGAAATTAACATTTGTTCTG | 719 |
| Db | 671 | CTCACCCTCTCTGAAAGGCTGTGTCTGCTTCTCAAGAAATTAACATTTGTTCTG | 730 |
| Qy | 720 | TGTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTGTTTCACCATCT | 779 |
| Db | 731 | TGTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTGTTTCACCATCT | 790 |
| Qy | 780 | TCTTTGTATTAATTTTGAATGTGCTTGAAAGTGAAGAAAGCAATCAATTAACCAACCA | 839 |
| Db | 791 | TCTTTGTATTAATTTTGAATGTGCTTGAAAGTGAAGAAAGCAATCAATTAACCAACCA | 850 |
| Qy | 840 | CACCACCTGAAATCATAGCTATTACAGACTCAGAAATATCTTAATAATTTTCTGACAGT | 899 |
| Db | 851 | CACCACCTGAAATCATAGCTATTACAGACTCAGAAATATCTTAATAATTTTCTGACAGT | 910 |
| Qy | 900 | ATAGTGTATTAATGTGTGTCATGTGTGATTTGTAGTTATGCAATTTTAAGCAATTTTGA | 959 |
| Db | 911 | ATAGTGTATTAATGTGTGTCATGTGTGATTTGTAGTTATGCAATTTTGA | 970 |
| Qy | 960 | AAGATCAGGCATATGTATATATTTTCAACTTCAAGAGCTAAGGAAATAATTTTCC | 1019 |
| Db | 971 | AAGATCAGGCATATGTATATATTTTCAACTTCAAGAGCTAAGGAAATAATTTTCC | 1030 |
| Qy | 1020 | AGTGAGAAATACATATATATGTGTAGAAATCATTGAAATATGATCCTTTTGACGATC | 1079 |
| Db | 1031 | AGTGAGAAATACATATATATGTGTAGAAATCATTGAAATATGATCCTTTTGACGATC | 1090 |
| Qy | 1080 | ACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGTAATTTGTAATGG | 1139 |
| Db | 1091 | ACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGTAATTTGTAATGG | 1150 |
| Qy | 1140 | ATGGATAAATGAATTTACTCATATACAGGGTGAATTTTATCTGTTATACACACCAAC | 1199 |
| Db | 1151 | ATGGATAAATGAATTTACTCATATACAGGGTGAATTTTATCTGTTATACACACCAAC | 1210 |
| Qy | 1200 | AGTTGATTAATATTTTCTGAATATACAGCCCTAATAGACAAATTCATTTGTTGACCAAT | 1259 |
| Db | 1211 | AGTTGATTAATATTTTCTGAATATACAGCCCTAATAGACAAATTCATTTGTTGACCAAT | 1270 |
| Qy | 1260 | TTCTACAATTTGTAAGAGTCCAAATCTGTCTAATCTTAATTAAGTAATATCATCTCTTTT | 1319 |
| Db | 1271 | TTCTACAATTTGTAAGAGTCCAAATCTGTCTAATCTTAATTAAGTAATATCATCAAAAAA | 1330 |
| Qy | 1320 | TAAG | 1345 |
| Db | 1331 | AAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1356 | |

Tue Jun 8 07:15:34 2004

us-09-989-724-386.rng

Page 348

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GenCore version 5.1.6
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Listing first 6500 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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| 3 | 1346 | 100.0 | 1346 | 9 US-09-989-279-386 | Sequence 386, App |
| 4 | 1346 | 100.0 | 1346 | 9 US-09-989-727-386 | Sequence 386, App |
| 5 | 1346 | 100.0 | 1346 | 9 US-09-989-731-386 | Sequence 386, App |
| 6 | 1346 | 100.0 | 1346 | 9 US-09-989-732-386 | Sequence 386, App |
| 7 | 1346 | 100.0 | 1346 | 9 US-09-991-073-386 | Sequence 386, App |
| 8 | 1346 | 100.0 | 1346 | 9 US-09-990-442-386 | Sequence 386, App |
| 9 | 1346 | 100.0 | 1346 | 9 US-09-991-163-386 | Sequence 386, App |
| 10 | 1346 | 100.0 | 1346 | 9 US-09-993-604-386 | Sequence 386, App |
| 11 | 1346 | 100.0 | 1346 | 9 US-09-990-456-386 | Sequence 386, App |
| 12 | 1346 | 100.0 | 1346 | 9 US-09-989-721-386 | Sequence 386, App |
| 13 | 1346 | 100.0 | 1346 | 9 US-09-992-598-386 | Sequence 386, App |
| 14 | 1346 | 100.0 | 1346 | 9 US-09-989-293A-386 | Sequence 386, App |

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| 16 | 1346 | 100.0 | 1346 | 9 US-09-990-444-386 | Sequence 386, App |
| 17 | 1346 | 100.0 | 1346 | 9 US-09-991-181-386 | Sequence 386, App |
| 18 | 1346 | 100.0 | 1346 | 9 US-09-989-730-386 | Sequence 386, App |
| 19 | 1346 | 100.0 | 1346 | 9 US-09-990-436-386 | Sequence 386, App |
| 20 | 1346 | 100.0 | 1346 | 9 US-09-993-687-386 | Sequence 386, App |
| 21 | 1346 | 100.0 | 1346 | 10 US-09-989-734-386 | Sequence 386, App |
| 22 | 1346 | 100.0 | 1346 | 10 US-09-997-653-386 | Sequence 386, App |
| 23 | 1346 | 100.0 | 1346 | 10 US-09-993-667-386 | Sequence 386, App |
| 24 | 1346 | 100.0 | 1346 | 10 US-09-997-428-386 | Sequence 386, App |
| 25 | 1346 | 100.0 | 1346 | 10 US-09-997-666-386 | Sequence 386, App |
| 26 | 1346 | 100.0 | 1346 | 10 US-09-990-438-386 | Sequence 386, App |
| 27 | 1346 | 100.0 | 1346 | 10 US-09-990-562-386 | Sequence 386, App |
| 28 | 1346 | 100.0 | 1346 | 10 US-09-990-711-386 | Sequence 386, App |
| 29 | 1346 | 100.0 | 1346 | 10 US-09-989-726-386 | Sequence 386, App |
| 30 | 1346 | 100.0 | 1346 | 10 US-09-998-156-386 | Sequence 386, App |
| 31 | 1346 | 100.0 | 1346 | 10 US-09-990-437-386 | Sequence 386, App |
| 32 | 1346 | 100.0 | 1346 | 10 US-09-991-157-386 | Sequence 386, App |
| 33 | 1346 | 100.0 | 1346 | 10 US-09-997-514-386 | Sequence 386, App |
| 34 | 1346 | 100.0 | 1346 | 10 US-09-997-573-386 | Sequence 386, App |
| 35 | 1346 | 100.0 | 1346 | 10 US-09-991-172-386 | Sequence 386, App |
| 36 | 1346 | 100.0 | 1346 | 10 US-09-990-726-386 | Sequence 386, App |
| 37 | 1346 | 100.0 | 1346 | 10 US-09-997-559-386 | Sequence 386, App |
| 38 | 1346 | 100.0 | 1346 | 10 US-09-997-601-386 | Sequence 386, App |
| 39 | 1346 | 100.0 | 1346 | 10 US-09-990-443-386 | Sequence 386, App |
| 40 | 1346 | 100.0 | 1346 | 10 US-09-991-854-386 | Sequence 386, App |
| 41 | 1346 | 100.0 | 1346 | 10 US-09-997-628-386 | Sequence 386, App |
| 42 | 1346 | 100.0 | 1346 | 10 US-09-997-683-386 | Sequence 386, App |
| 43 | 1346 | 100.0 | 1346 | 10 US-09-989-729A-386 | Sequence 386, App |
| 44 | 1346 | 100.0 | 1346 | 10 US-09-997-349-386 | Sequence 386, App |
| 45 | 1346 | 100.0 | 1346 | 10 US-09-997-440-386 | Sequence 386, App |
| 46 | 1346 | 100.0 | 1346 | 10 US-09-990-440-386 | Sequence 386, App |
| 47 | 1346 | 100.0 | 1346 | 10 US-09-993-469-386 | Sequence 386, App |
| 48 | 1346 | 100.0 | 1346 | 10 US-09-997-542-386 | Sequence 386, App |
| 49 | 1346 | 100.0 | 1346 | 10 US-09-993-748-386 | Sequence 386, App |
| 50 | 1346 | 100.0 | 1346 | 10 US-09-990-439-386 | Sequence 386, App |
| 51 | 1346 | 100.0 | 1346 | 10 US-09-990-427-386 | Sequence 386, App |
| 52 | 1346 | 100.0 | 1346 | 10 US-09-989-328-386 | Sequence 386, App |
| 53 | 1346 | 100.0 | 1346 | 10 US-09-993-583-386 | Sequence 386, App |
| 54 | 1346 | 100.0 | 1346 | 10 US-09-941-992-386 | Sequence 386, App |
| 55 | 1346 | 100.0 | 1346 | 10 US-09-992-521-386 | Sequence 386, App |
| 56 | 1346 | 100.0 | 1346 | 10 US-09-997-333-386 | Sequence 386, App |
| 57 | 1346 | 100.0 | 1346 | 10 US-09-997-384-386 | Sequence 386, App |
| 58 | 1346 | 100.0 | 1346 | 10 US-09-998-041-386 | Sequence 386, App |
| 59 | 1346 | 100.0 | 1346 | 10 US-09-997-585-386 | Sequence 386, App |
| 60 | 1346 | 100.0 | 1346 | 10 US-09-997-614-386 | Sequence 386, App |
| 61 | 1346 | 100.0 | 1346 | 10 US-09-989-862-386 | Sequence 386, App |
| 62 | 1346 | 100.0 | 1346 | 10 US-09-997-529-386 | Sequence 386, App |
| 63 | 1346 | 100.0 | 1346 | 10 US-09-989-725-386 | Sequence 386, App |
| 64 | 1346 | 100.0 | 1346 | 11 US-09-989-733-386 | Sequence 386, App |
| 65 | 1346 | 100.0 | 1346 | 11 US-09-992-643-386 | Sequence 386, App |
| 66 | 1346 | 100.0 | 1346 | 13 US-10-147-493-481 | Sequence 481, App |
| 67 | 1346 | 100.0 | 1346 | 13 US-10-145-127-481 | Sequence 481, App |
| 68 | 1346 | 100.0 | 1346 | 13 US-10-160-503-481 | Sequence 481, App |
| 69 | 1346 | 100.0 | 1346 | 13 US-10-143-118-481 | Sequence 481, App |
| 70 | 1346 | 100.0 | 1346 | 13 US-10-144-993-481 | Sequence 481, App |
| 71 | 1346 | 100.0 | 1346 | 13 US-10-158-787-481 | Sequence 481, App |
| 72 | 1346 | 100.0 | 1346 | 13 US-10-140-024-481 | Sequence 481, App |
| 73 | 1346 | 100.0 | 1346 | 13 US-09-989-724-386 | Sequence 386, App |
| 74 | 1346 | 100.0 | 1346 | 13 US-09-989-728-386 | Sequence 386, App |
| 75 | 1346 | 100.0 | 1346 | 13 US-09-990-441-386 | Sequence 386, App |
| 76 | 1346 | 100.0 | 1346 | 13 US-10-140-808-481 | Sequence 481, App |
| 77 | 1346 | 100.0 | 1346 | 13 US-09-997-857-386 | Sequence 386, App |
| 78 | 1346 | 100.0 | 1346 | 13 US-09-997-641-386 | Sequence 386, App |
| 79 | 1346 | 100.0 | 1346 | 13 US-09-991-150-386 | Sequence 386, App |
| 80 | 1346 | 100.0 | 1346 | 13 US-10-152-405-481 | Sequence 481, App |
| 81 | 1346 | 100.0 | 1346 | 13 US-10-127-852A-481 | Sequence 481, App |
| 82 | 1346 | 100.0 | 1346 | 13 US-10-127-900A-481 | Sequence 481, App |
| 83 | 1346 | 100.0 | 1346 | 13 US-10-128-685A-481 | Sequence 481, App |
| 84 | 1346 | 100.0 | 1346 | 13 US-10-131-820A-481 | Sequence 481, App |
| 85 | 1346 | 100.0 | 1346 | 13 US-10-142-886-481 | Sequence 481, App |
| 86 | 1346 | 100.0 | 1346 | 13 US-10-146-728-481 | Sequence 481, App |
| 87 | 1346 | 100.0 | 1346 | 13 US-10-146-786-481 | Sequence 481, App |


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; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 481
; LENGTH: 1346
; TYPE: DNA
; ORGANISM: Homo Sapien
;
US-10-128-692A-481

```

| | | | | |
|-----------------------|--------------|---------------------|------------|--------------|
| Query Match | 100.0%; | Score 1346; | DB 16; | Length 1346; |
| Best Local Similarity | 100.0%; | Pred. No. 1.4e-295; | | |
| Matches 1346; | Conservative | 0; | Mismatches | 0; |
| | | | Indels | 0; |
| | | | Gaps | 0; |

| | | | |
|----|-----|---|-----|
| OY | 1 | GAAAGAATGTTGTCGCTGCTCTTTTCTGTGACGTCCATTCACTCTGTCAA | 60 |
| Db | 1 | GAAAGAATGTTGTCGCTGCTCTTTTCTGTGACGTCCATTCACTCTGTCAA | 60 |
| OY | 61 | CCAGGTGCAGAAAAATGCTTTTAAAGTGAAGCTTAGTATCAGAACAGCTCTGGAGATAAA | 120 |
| Db | 61 | CCAGGTGCAGAAAAATGCTTTTAAAGTGAAGCTTAGTATCAGAACAGCTCTGGAGATAAA | 120 |
| OY | 121 | GCAATATGCCCTGGGATACCAATGAAAGATACCTCTTCAAAGCGATGTAGCTTTCTCCATG | 180 |
| Db | 121 | GCAATATGCCCTGGGATACCAATGAAAGATACCTCTTCAAAGCGATGTAGCTTTCTCCATG | 180 |
| OY | 181 | AGAAAAAGTTCCTCCACAGAGAACACAGAAATTTCCCATGTCTACTTTGCAATGTAAAC | 240 |
| Db | 181 | AGAAAAAGTTCCTCCACAGAGAACACAGAAATTTCCCATGTCTACTTTGCAATGTAAAC | 240 |
| OY | 241 | CAGAGGGTATCATTTCTGTTTGTGTGTTACAGACCCCTTCAAAAAATCACACCTTCTGCT | 300 |
| Db | 241 | CAGAGGGTATCATTTCTGTTTGTGTGTTACAGACCCCTTCAAAAAATCACACCTTCTGCT | 300 |
| OY | 301 | GTTGAGGTGCATCAGCCATAGAATGAACAAGAACCGATCAACATGCTTCTTCTA | 360 |
| Db | 301 | GTTGAGGTGCATCAGCCATAGAATGAACAAGAACCGATCAACATGCTTCTTCTA | 360 |
| OY | 361 | AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTGCAACCAATGAGCCCA | 420 |
| Db | 361 | AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTGCAACCAATGAGCCCA | 420 |
| OY | 421 | TCTGTGCCCATCTGGAATTAATATATTGTGTGATATTTGCATCATAGTGTGCAATT | 480 |
| Db | 421 | TCTGTGCCCATCTGGAATTAATATATTGTGTGATATTTGCATCATAGTGTGCAATT | 480 |
| OY | 481 | GCACTACTGATTTTATCAAGGATCTGGCAACGTAGAAGAAAGAACAAAGAACATCTGAA | 540 |
| Db | 481 | GCACTACTGATTTTATCAAGGATCTGGCAACGTAGAAGAAAGAACAAAGAACATCTGAA | 540 |
| OY | 541 | GTCGATGACGCTGAGGATTAAGTGTGAACAATGATCACAATTGAAAATGGCAATCCCTCT | 600 |
| Db | 541 | GTCGATGACGCTGAGGATTAAGTGTGAACAATGATCACAATTGAAAATGGCAATCCCTCT | 600 |
| OY | 601 | GATCCCTCTGACATGAAGGGGGGCAATTAATGATGCTTCATGACAGAGATGAGAGGC | 660 |
| Db | 601 | GATCCCTCTGACATGAAGGGGGGCAATTAATGATGCTTCATGACAGAGATGAGAGGC | 660 |
| OY | 661 | TCAACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTCAAGAAATTAACAATTTGTTTCTGT | 720 |
| Db | 661 | TCAACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTCAAGAAATTAACAATTTGTTTCTGT | 720 |
| OY | 721 | GTCATCTGTGAGCATTCCTGAATAACCAAGACAGATCATATATTTTGTTTCAACCATTTCT | 780 |
| Db | 721 | GTCATCTGTGAGCATTCCTGAATAACCAAGACAGATCATATATTTTGTTTCAACCATTTCT | 780 |
| OY | 781 | CTTTTGTAAATTAATTTTGAATGTGCTTGAAGTGAAGAACATCAATTTATACCCACCAAC | 840 |
| Db | 781 | CTTTTGTAAATTAATTTTGAATGTGCTTGAAGTGAAGAACATCAATTTATACCCACCAAC | 840 |

| | | | |
|----|------|---|------|
| QY | 841 | ACCACTGAAATCATTAAGCTATTTCACGACTCAAAATATTTCTAAAAATATTTTCTGACAGTA | 900 |
| Db | 841 | ACCACTGAAATCATTAAGCTATTTCACGACTCAAAATATTTCTAAAAATATTTTCTGACAGTA | 900 |
| QY | 901 | TAGTGTATAAATGTGTCATGTGTGATTTGTAGTATTGATTTTAAGCATTTTGAAGATA | 960 |
| Db | 901 | TAGTGTATAAATGTGTCATGTGTGATTTGTAGTATTGATTTTAAGCATTTTGAAGATA | 960 |
| QY | 961 | AGATCAGGCATATGTATATATTTTTCACACTTCAAGAACCTAAGGAAAAATAAATTTTCCA | 1020 |
| Db | 961 | AGATCAGGCATATGTATATATTTTTCACACTTCAAGAACCTAAGGAAAAATAAATTTTCCA | 1020 |
| QY | 1021 | GTGGAGAAATCATATAATATGTGTGAGAAATCATTTGAAATGATCCTTTGAAGATCA | 1080 |
| Db | 1021 | GTGGAGAAATCATATAATATGTGTGAGAAATCATTTGAAATGATCCTTTGAAGATCA | 1080 |
| QY | 1081 | CTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGATTAATTGTAAATGGA | 1140 |
| Db | 1081 | CTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGATTAATTGTAAATGGA | 1140 |
| QY | 1141 | TGGATAAAAAATGGAATTACTCATATACAGGGTGAATTTTATCCGTGTATCAACACCAACA | 1200 |
| Db | 1141 | TGGATAAAAAATGGAATTACTCATATACAGGGTGAATTTTATCCGTGTATCAACACCAACA | 1200 |
| QY | 1201 | GTGATTATATATTTTCTGAATATCAGCCCTAATAGCAAAATTCATTTGTGACCAAT | 1260 |
| Db | 1201 | GTGATTATATATTTTCTGAATATCAGCCCTAATAGCAAAATTCATTTGTGACCAAT | 1260 |
| QY | 1261 | TCTACAATTTGTAAAAAGTCCAAATCTGTGCTAACTTAATATAAGTAATAATCATCTCTTTT | 1320 |
| Db | 1261 | TCTACAATTTGTAAAAAGTCCAAATCTGTGCTAACTTAATATAAGTAATAATCATCTCTTTT | 1320 |
| QY | 1321 | AAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346 | |
| Db | 1321 | AAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346 | |

RESULT 508
US-10-140-927-481
; Sequence 481, Application US/10140927
; Publication No. US2004009548A1

```

; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330RIC180
; CURRENT APPLICATION NUMBER: US/10/140,927
; CURRENT FILING DATE: 2002-05-07
; Prior Application removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 481
; LENGTH: 1346
; TYPE: DNA
; ORGANISM: Homo Sapien
US-1-140-927-481

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| Query Match | 100.0%; | Score 1346; | DB 16; | Length 1346; |
|-------------|---------|-------------|--------|--------------|
|-------------|---------|-------------|--------|--------------|

Best Local Similarity 100.0%; Pred. No. 1.4e-295;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GAAAGATGTTGGCTGCTCTTTTCTGCTGATGCTCATTCAGTCTGCTCA 60
DB 1 GAAAGATGTTGGCTGCTCTTTTCTGCTGATGCTCATTCAGTCTGCTCA 60
QY 61 CCAGGTGAGAAAATGCTTTTAAAGTGAAGCTTAGTACAGAACAGCTCTGGAGATAA 120
DB 61 CCAGGTGAGAAAATGCTTTTAAAGTGAAGCTTAGTACAGAACAGCTCTGGAGATAA 120
QY 121 GCATATGCTGGGATACCAATGAAGATACCTCTCAAGCGATGATCTTCTCATG 180
DB 121 GCATATGCTGGGATACCAATGAAGATACCTCTCAAGCGATGATCTTCTCATG 180
QY 181 AGAAAAGTCCCAAGAGAGAACAGAAATTTCCATGTCCTTCAATGTAACC 240
DB 181 AGAAAAGTCCCAAGAGAGAACAGAAATTTCCATGTCCTTCAATGTAACC 240
QY 241 CAGAGGGTATCATCTGCTTGTGTGTTACAGACCCTTCAAAAATCACACCTTCTGCT 300
DB 241 CAGAGGGTATCATCTGCTTGTGTGTTACAGACCCTTCAAAAATCACACCTTCTGCT 300
QY 301 GTTGAGGTGCAATGACCCATAGAAATGAACAAGAACGGATCAACAATGCTTCTTCTA 360
DB 301 GTTGAGGTGCAATGACCCATAGAAATGAACAAGAACGGATCAACAATGCTTCTTCTA 360
QY 361 AATGACCAAACTCTGCAATTTTAAATCCCTTGACACTTGACCACTGACCA 420
DB 361 AATGACCAAACTCTGCAATTTTAAATCCCTTGACACTTGACCACTGACCA 420
QY 421 TCTGTGCCCATCTGCAATTTATATATTGCTGTGATTTTGCATCATATAGTGAATT 480
DB 421 TCTGTGCCCATCTGCAATTTATATATTGCTGTGATTTTGCATCATATAGTGAATT 480
QY 481 GCACTACTGATTTTATCAGGGATCTGGCAAGTAGAAGAAACAAGAACCATCTGAA 540
DB 481 GCACTACTGATTTTATCAGGGATCTGGCAAGTAGAAGAAACAAGAACCATCTGAA 540
QY 541 GTGATGACGCTGAAGATAGTGTGAACAATGATCACAATGAAATGGCATCCCTCT 600
DB 541 GTGATGACGCTGAAGATAGTGTGAACAATGATCACAATGAAATGGCATCCCTCT 600
QY 601 GATCCCTCTGACATGAAGGGGGGCAATTAATGATGCTTCATGACAGAGATGAGAGC 660
DB 601 GATCCCTCTGACATGAAGGGGGGCAATTAATGATGCTTCATGACAGAGATGAGAGC 660
QY 661 TCACCCCTCTCTGAAGGCTGTGTCTGCTTCTCAGAAATTAACAATTTGTTCTGT 720
DB 661 TCACCCCTCTCTGAAGGCTGTGTCTGCTTCTCAGAAATTAACAATTTGTTCTGT 720
QY 721 GTGACTGCTGAGCATCTGAATATACCAAGAGAGATCATATATTGTTCAACATCTT 780
DB 721 GTGACTGCTGAGCATCTGAATATACCAAGAGAGATCATATATTGTTCAACATCTT 780
QY 781 CTTTGTATATAATTTTGAATGTGCTGAAGTGAAGCAATCAATTATACCCACCAAC 840
DB 781 CTTTGTATATAATTTTGAATGTGCTGAAGTGAAGCAATCAATTATACCCACCAAC 840
QY 841 ACCACTGAATATCATAGCTATTCACGACTCAAAATATCTTAAATATTTTCTGACAGTA 900
DB 841 ACCACTGAATATCATAGCTATTCACGACTCAAAATATCTTAAATATTTTCTGACAGTA 900
QY 901 TAGGTATATAATGTGCTCATGTGTATTTGATTTGATTTAAGCATTTTGAATA 960
DB 901 TAGGTATATAATGTGCTCATGTGTATTTGATTTGATTTAAGCATTTTGAATA 960
QY 961 AGATAGGCGATATGATATATTTTTCACACTTCAAGAGCTTAAGGAAATAAATTTTCCA 1020
DB 961 AGATAGGCGATATGATATATTTTTCACACTTCAAGAGCTTAAGGAAATAAATTTTCCA 1020
QY 1021 GTGAGATATCATATATAATGTGTGAATAATCAATGAAATGATCCTTTTGAAGATCA 1080
DB 1021 GTGAGATATCATATATAATGTGTGAATAATCAATGAAATGATCCTTTTGAAGATCA 1080
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DB 1021 GTGAGATATCATATATAATGTGTGAATAATCAATGAAATGATCCTTTTGAAGATCA 1080
QY 1081 CTTATATCACTCTGATATAGACTAAGTAAACAAAAGTGAGAAATTAATGTAATGGA 1140
DB 1081 CTTATATCACTCTGATATAGACTAAGTAAACAAAAGTGAGAAATTAATGTAATGGA 1140
QY 1141 TGATATAAATGAATTAATCATATACAGGGTGAATTTATCTGTTATCACACCAACA 1200
DB 1141 TGATATAAATGAATTAATCATATACAGGGTGAATTTATCTGTTATCACACCAACA 1200
QY 1201 GTGATATATATTTTCTGAATATACGCCCTTAATAGCAATTTCTATTTGTGACCAAT 1260
DB 1201 GTGATATATATTTTCTGAATATACGCCCTTAATAGCAATTTCTATTTGTGACCAAT 1260
QY 1261 TCTACATTTTGTAAAGTCCATCTGCTTAATTAATGAATTAATCAATCTCTTTT 1320
DB 1261 TCTACATTTTGTAAAGTCCATCTGCTTAATTAATGAATTAATCAATCTCTTTT 1320
QY 1321 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346
DB 1321 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346
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RESULT 509

US-10-147-536-481
Sequence 481, Application US/10147536
Publication No. US20040077064A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C349
CURRENT APPLICATION NUMBER: US/10/147,536
CURRENT FILING DATE: 2002-05-17
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 481
LENGTH: 1346
TYPE: DNA
ORGANISM: Homo Sapien
US-10-147-536-481

Query Match 100.0%; Score 1346; DB 17; Length 1346;

Best Local Similarity 100.0%; Pred. No. 1.4e-295;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GAAAGATGTTGGCTGCTCTTTTCTGCTGATGCTCATTCAGTCTGCTCA 60
DB 1 GAAAGATGTTGGCTGCTCTTTTCTGCTGATGCTCATTCAGTCTGCTCA 60
QY 61 CCAGGTGAGAAAATGCTTTTAAAGTGAAGCTTAGTATCAAGACAGCTCTGGAGATAA 120
DB 61 CCAGGTGAGAAAATGCTTTTAAAGTGAAGCTTAGTATCAAGACAGCTCTGGAGATAA 120
QY 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGCGATGATGTTCTCATG 180
DB 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGCGATGATGTTCTCATG 180
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QY 181 AGAAAAGTTCCCAAGAGAGCAAGAAATTTCCCATGTCCTTAATTGCAATGTAACC 240
DB 181 AGAAAAGTTCCCAAGAGAGCAAGAAATTTCCCATGTCCTTAATTGCAATGTAACC 240
QY 241 CAGAGGGTATCATTTCTGTTTGTGTTACAGACCCCTTCAAAAATCACAACCTTCTGCT 300
DB 241 CAGAGGGTATCATTTCTGTTTGTGTTACAGACCCCTTCAAAAATCACAACCTTCTGCT 300
QY 301 GTTGAGGTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACATGCTTCTTCTA 360
DB 301 GTTGAGGTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACATGCTTCTTCTA 360
QY 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCACACTTGACCAACCCATGGACCCA 420
DB 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCACACTTGACCAACCCATGGACCCA 420
QY 421 TCTGTGCCCATCTGGAATTAATTAATTTGGTGATTAATTTGCAATCATAGTTGCAATT 480
DB 421 TCTGTGCCCATCTGGAATTAATTAATTTGGTGATTAATTTGCAATCATAGTTGCAATT 480
QY 481 GCACTACTGATTTTATCAGGATCTGCGCAACGTAGAGAAAGAACAAAGAACATCTGAA 540
DB 481 GCACTACTGATTTTATCAGGATCTGCGCAACGTAGAGAAAGAACAAAGAACATCTGAA 540
QY 541 GTGATGACGCTGAAGATAGTGTGAAAAACATGATCACAATGAAATGGCATCCCTCT 600
DB 541 GTGATGACGCTGAAGATAGTGTGAAAAACATGATCACAATGAAATGGCATCCCTCT 600
QY 601 GATCCCTCTGACATGAAGGGGGCATATTAATGATGCTTCAGAGAAATTAACATTTCTGT 660
DB 601 GATCCCTCTGACATGAAGGGGGCATATTAATGATGCTTCAGAGAAATTAACATTTCTGT 660
QY 661 TCACCCCTCTGAGAGGGCTGTGTTCTGCTCTCAAGAAATTAACATTTCTGT 720
DB 661 TCACCCCTCTGAGAGGGCTGTGTTCTGCTCTCAAGAAATTAACATTTCTGT 720
QY 721 GTGACTGCTGAGCATCTGAAATACCAAGACAGATCATATTTTGTTCACCATTTCT 780
DB 721 GTGACTGCTGAGCATCTGAAATACCAAGACAGATCATATTTTGTTCACCATTTCT 780
QY 781 CTTTGTATTAATTTTGAATGTGCTTGAAGTGAAGCAATCAATTATACCAACCAAC 840
DB 781 CTTTGTATTAATTTTGAATGTGCTTGAAGTGAAGCAATCAATTATACCAACCAAC 840
QY 841 ACCACTGAATCATTAAGCTATTCACGACTCAAAATATTTCTGAAGAGTA 900
DB 841 ACCACTGAATCATTAAGCTATTCACGACTCAAAATATTTCTGAAGAGTA 900
QY 901 TAGTGTATAATGTGTCATGTGTATTTGATGATTTAAGCATTTTGAAGATA 960
DB 901 TAGTGTATAATGTGTCATGTGTATTTGATGATTTAAGCATTTTGAAGATA 960
QY 961 AGATCAGCATATGTATATATTTTCAACCTTCAAGACCTAAGAAAATTAATTTTCCA 1020
DB 961 AGATCAGCATATGTATATATTTTCAACCTTCAAGACCTAAGAAAATTAATTTTCCA 1020
QY 1021 GTGAGAAATACATATATATGTGTAGAAATCATGAAATGATCTTTTGAAGATCA 1080
DB 1021 GTGAGAAATACATATATATGTGTAGAAATCATGAAATGATCTTTTGAAGATCA 1080
QY 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAAGATTAATTTGTAATGGA 1140
DB 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAAGATTAATTTGTAATGGA 1140
QY 1141 TGGATAAAAATGGAATTAATCATATACAGGGTGAATTTATCTGTATCACACCAACA 1200
DB 1141 TGGATAAAAATGGAATTAATCATATACAGGGTGAATTTATCTGTATCACACCAACA 1200
QY 1201 GTTGATTAATATTTTCTGAATATCAGCCCTAATAGACAAATCTATTTGTGACCAATT 1260
DB 1201 GTTGATTAATATTTTCTGAATATCAGCCCTAATAGACAAATCTATTTGTGACCAATT 1260
```

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QY 1261 TCTACAATTTGTAAAGTCCAACTCTGTGCTAATTAATAAGTAATCATCTTTT 1320
DB 1261 TCTACAATTTGTAAAGTCCAACTCTGTGCTAATTAATAAGTAATCATCTTTT 1320
QY 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
DB 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
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RESULT 510

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US-10-372-876-17
; Sequence 17, Application US/10372876
; Publication No. US20030204071A1
; GENERAL INFORMATION:
; APPLICANT: Moore, Paul A. et al.
; TITLE OF INVENTION: 110 Human Secreted Proteins
; FILE REFERENCE: P2021P1
; CURRENT APPLICATION NUMBER: US/10/372, 876
; CURRENT FILING DATE: 2003-02-26
; PRIOR APPLICATION NUMBER: 09/334,595
; PRIOR FILING DATE: 1999-06-17
; PRIOR APPLICATION NUMBER: PCT/US98/27059
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: 60/070, 923
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068, 007
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068, 057
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068, 006
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068, 369
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068, 367
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068, 368
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068, 169
; PRIOR FILING DATE: 1997-12-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 1432
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-372-876-17
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Query Match 98.5%; Score 1325.4; DB 13; Length 1432;
Best Local Similarity 99.5%; Pred. No. 7e-291;
Matches 1340; Conservative 0; Mismatches 6; Indels 1; Gaps 1;
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QY 1 GAAGAATGTGTGCTCTTTTCTGTGTAAGTGCATTCATGCTGAATCTGTCAA 60
DB 63 GAAGAATGTGTGCTCTTTTCTGTGTAAGTGCATTCATGCTGAATCTGTCAA 122
QY 61 CAGGTGCAAAATGCTTTAAAGTGAAGTATGATCAGAACAGCTCTGGAGATAAA 120
DB 123 CAGGTGCAAAATGCTTTAAAGTGAAGTATGATCAGAACAGCTCTGGAGATAAA 182
QY 121 GCATATGCTGGATACCAATGAAGATACCTCTCAAGCGATGTAGCTTCTCATG 180
DB 183 GCATATGCTGGATACCAATGAAGATACCTCTCAAGCGATGTAGCTTCTCATG 242
QY 181 AGAAAAGTTCCCAAGAGAGCAAGAAATTTCCCATGTCCTTAATTGCAATGTAACC 240
DB 243 AGAAAAGTTCCCAAGAGAGCAAGAAATTTCCCATGTCCTTAATTGCAATGTAACC 302
QY 241 CAGAGGGTATCATTTCTGTTTGTGTTACAGACCCCTTCAAAAATCACAACCTTCTGCT 300
DB 303 CAGAGGGTATCATTTCTGTTTGTGTTACAGACCCCTTCAAAAATCACAACCTTCTGCT 362
QY 301 GTTGAGGTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACATGCTTCTTCTA 360
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DB 363 GTTAGGTGCAATCAGCCATTAAGAAATGAAACAAGAACCGGATCAACATGCTTCTTA 422
QY 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACTGACCACTCCATGACCA 420
DB 423 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACTGACCACTCCATGACCA 482
QY 421 TCTGTGCCCATCTGGAATTAATATATGCTGGAATTTTGCATCATCATAGTGCAT 480
DB 483 TCTGTGCCCATCTGGAATTAATATATGCTGGAATTTTGCATCATCATAGTGCAT 542
QY 481 GCACTACTGATTTTATCAGGGATCTGCAACGTAAGAAAGAAAGAAAGAAAGAAAG 540
DB 543 GCACTACTGATTTTATCAGGGATCTGCAACGTAAGAAAGAAAGAAAGAAAGAAAG 602
QY 541 GTGATGACGCTGAAGATAAGTGTGAAAACATGATCAATTTGAAAATGGCATCCCT 600
DB 603 GTGATGACGCTGAAGATAAGTGTGAAAACATGATCAATTTGAAAATGGCATCCCT 662
QY 601 GATCCCTCTGACATGAAGG-GGGCAATTAATGATGCTTCATGACAGAGATGAGG 659
DB 663 GATCCCTCTGACATGAAGGAGGCAATTAATGATGCTTCATGACAGAGATGAGG 722
QY 660 CTCACCCCTCTCTGAAGGCTGTGCTCTCTCTCAAGAAATTAACATTTGTTCTG 719
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QY 720 TGTGACTGCTGACATCTCTGAAGATCAAGACAGATCATATATTTGTTCCACCAT 779
DB 783 TGTGACTGCTGACATCTCTGAAGATCAAGACAGATCATATATTTGTTCCACCAT 842
QY 780 TCTTTGTATAAATTTTGAATGTGCTTGAAGTGAAGAAAGCAATCAATTAACCCACA 839
DB 843 TCTTTGTATAAATTTTGAATGTGCTTGAAGTGAAGAAAGCAATCAATTAACCCACA 902
QY 840 CACCACTGAATCATAGCTATTCAAGACTCAAAATATCTAAATATTTTCTGACAGT 899
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QY 900 ATAGTATATAATGTGTCATGTGTAATTTGTAATTAATTAAGCAATTTTAGAAT 959
DB 963 ATAGTATATAATGTGTCATGTGTAATTTGTAATTAATTAAGCAATTTTAGAAT 1022
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DB 1023 AAGATCAGGATATGTATATTTTCACTCAAGACTTAAGAAATTAATTTTCC 1082
QY 1020 AGTGGAATFACATATAATGTGTGAATCATTTGAATGATCTTTTGAAGATC 1079
DB 1083 AGTGGAATFACATATAATGTGTGAATCATTTGAATGATCTTTTGAAGATC 1142
QY 1080 ACTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGATTAATTTGAATG 1139
DB 1143 ACTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGATTAATTTGAATG 1202
QY 1140 ATGATATAAATGAAATTAATCATATACAGGCTGAATTTATCTGTATACACCAAC 1199
DB 1203 ATGATATAAATGAAATTAATCATATACAGGCTGAATTTATCTGTATACACCAAC 1262
QY 1200 AGTTATATATATTTCTGAATATCAGCCCTAATAGCAATTCATTTGTGACAT 1259
DB 1263 AGTTATATATATTTCTGAATATCAGCCCTAATAGCAATTCATTTGTGACAT 1322
QY 1260 TTCTACAATTTGTAAAGTCCAATCTGTGCTAACTTAATAAGTAAATCATCTCTTT 1319
DB 1323 TTCTACAATTTGTAAAGTCCAATCTGTGCTAACTTAATAAGTAAATCATCTCTTT 1382
QY 1320 TAAAAAATTTTAAAAAATTTTAAAAA 1346
DB 1383 TGATTTGAAAAAATTTTAAAAA 1409
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RESULT 511

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US-10-097-065-17
: Sequence 17, Application US/10097065
: Publication No. US20030055236A1
: GENERAL INFORMATION:
: APPLICANT: Moore, Paul A. et al.
: TITLE OF INVENTION: 110 Human Secreted Proteins
: FILE REFERENCE: P2021P1
: CURRENT APPLICATION NUMBER: US/10/097, 065
: CURRENT FILING DATE: 2002-03-14
: PRIOR APPLICATION NUMBER: PCT/US98/27059
: PRIOR FILING DATE: 1998-12-17
: PRIOR APPLICATION NUMBER: 60/070, 923
: PRIOR FILING DATE: 1997-12-18
: PRIOR APPLICATION NUMBER: 60/068, 007
: PRIOR FILING DATE: 1997-12-18
: PRIOR APPLICATION NUMBER: 60/068, 057
: PRIOR FILING DATE: 1997-12-18
: PRIOR APPLICATION NUMBER: 60/068, 006
: PRIOR FILING DATE: 1997-12-18
: PRIOR APPLICATION NUMBER: 60/068, 369
: PRIOR FILING DATE: 1997-12-19
: PRIOR APPLICATION NUMBER: 60/068, 367
: PRIOR FILING DATE: 1997-12-19
: PRIOR APPLICATION NUMBER: 60/068, 368
: PRIOR FILING DATE: 1997-12-19
: PRIOR APPLICATION NUMBER: 60/068, 169
: PRIOR FILING DATE: 1997-12-19
: PRIOR APPLICATION NUMBER: 60/068, 053
: PRIOR FILING DATE: 1997-12-18
: PRIOR APPLICATION NUMBER: 60/068, 064
: PRIOR FILING DATE: 1997-12-18
: PRIOR APPLICATION NUMBER: 60/068, 054
: PRIOR FILING DATE: 1997-12-18
: PRIOR APPLICATION NUMBER: 60/068, 008
: PRIOR FILING DATE: 1997-12-18
: PRIOR APPLICATION NUMBER: 60/068, 365
: PRIOR FILING DATE: 1997-12-19
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO 17
: LENGTH: 1432
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-10-097-065-17

Query Match 98.5%; Score 1325.4; DB 15; Length 1432;
Best Local Similarity 99.5%; Pred. No. 7e-291;
Matches 1340; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

QY 1 GAAGAATGTTGTGCTGCTCTTTTCTGTGACTGCACTTCACTGTAAGTCTGTA 60
DB 63 GAAGAATGTTGTGCTGCTCTTTTCTGTGACTGCACTTCACTGTAAGTCTGTA 122
QY 61 CCAGGTGCAAAAAATGCTTTTAAAGTGAAGCTTAGTATCAAGAACAGCTTGGGAGATAA 120
DB 123 CCAGGTGCAAAAAATGCTTTTAAAGTGAAGCTTAGTATCAAGAACAGCTTGGGAGATAA 182
QY 121 GCATATGCTGGATACCAATGAAGAAATCTCTTCAAGCGATGTAGCTTTCTCAG 180
DB 183 GCATATGCTGGATACCAATGAAGAAATCTCTTCAAGCGATGTAGCTTTCTCAG 242
QY 181 AGAAAAGTCCCAACAGAGAACCAAGAAATTTCCATGCTCTACTTTGCAATGTAAC 240
DB 243 AGAAAAGTCCCAACAGAGAACCAAGAAATTTCCATGCTCTACTTTGCAATGTAAC 302
QY 241 CAGAGGTATCATTTCTGTTGTGTGTTACAGACCTTCAAAAAATCACACCTTCTGCT 300
DB 303 CAGAGGTATCATTTCTGTTGTGTGTTACAGACCTTCAAAAAATCACACCTTCTGCT 362
QY 301 GTTGAAGTCAATCAGCCATAGAATGAACAAGAACCGATCAACATGCTTCTTTCTA 360
DB 363 GTTGAAGTCAATCAGCCATAGAATGAACAAGAACCGATCAACATGCTTCTTTCTA 422
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OY 361 AATGACCAAACTCTGGAATTTTAAATAATCCCTTCCACACTTTCACCAACCAACCAACCAACCA 420
DB 423 AATGACCAAACTCTGGAATTTTAAATAATCCCTTCCACACTTTCACCAACCAACCAACCAACCA 482
OY 421 TCTGTCCTCATCTGGAATTAATTAATTTGCTGATATTTTGCATCATAGTTGCAATT 480
DB 483 TCTGTCCTCATCTGGAATTAATTAATTTGCTGATATTTTGCATCATAGTTGCAATT 542
OY 481 GCACACTGATTTTATTCAGGATCTGCGCAAGTAGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 540
DB 543 GCACACTGATTTTATTCAGGATCTGCGCAAGTAGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 602
OY 541 GTGATGACCTGGAAGATAGTGTGAAAACATGATCACAATGAAATGCAATGCAATGCAATGCAATG 600
DB 603 GTGATGACCTGGAAGATAGTGTGAAAACATGATCACAATGAAATGCAATGCAATGCAATGCAATG 662
OY 601 GATCCCTCTGACATGAAAGG-GGGCATATTAATGATGCTTCAATGACAGAGATGAGAGG 659
DB 663 GATCCCTCTGACATGAAAGGAGGGCATATTAATGATGCTTCAATGACAGAGATGAGAGG 722
OY 660 CTCACCCCTCTCTGAAAGGCTGTGCTGCTCTCTCAAGAAATTAACATTTGTTCTG 719
DB 723 CTCACCCCTCTCTGAAAGGCTGTGCTGCTCTCTCAAGAAATTAACATTTGTTCTG 782
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DB 783 TGTGACTGCTGAGCATCTGAAATACCAAGAGAGATCATATTTTGTTCACCATCT 842
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DB 843 TCTTTTGTATAAATTTTGAATGTGCTTGAAGTGAAGAAAGCAATCAATTAATCCACCA 902
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OY 960 AAGATCAGGCATATGTATATATTTTTCACACTTCAAAAGACTTAAGGAAAAATTAATTTTCC 1019
DB 1023 AAGATCAGGCATATGTATATATTTTTCACACTTCAAAAGACTTAAGGAAAAATTAATTTTCC 1082
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DB 1083 AGTGAGAAATACATATATATATGTGTAGAAATCATTTGAAATGATCCCTTTTGACGATC 1142
OY 1080 ACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAGAAATTAATTTGTAATGG 1139
DB 1143 ACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAGAAATTAATTTGTAATGG 1202
OY 1140 AATGATAAATATGAATTAATCTCATATACAGGCTGGAATTTTATCTGTATACACCAAC 1199
DB 1203 AATGATAAATATGAATTAATCTCATATACAGGCTGGAATTTTATCTGTATACACCAAC 1262
OY 1200 AGTGTATATATATTTTCTGAATATACAGCCCTTAATAGCAATTTCTATTTGTGACCAT 1259
DB 1263 AGTGTATATATATTTTCTGAATATACAGCCCTTAATAGCAATTTCTATTTGTGACCAT 1322
OY 1260 TTCTACAATTTGTAAAGTCCAATCTGTCTAACTTAATPAAGTAATATCATCTCTTTT 1319
DB 1323 TTCTACAATTTGTAAAGTCCAATCTGTCTAACTTAATPAAGTAATATCATCTCTTTT 1382
OY 1320 TAAAAAAT 1346
DB 1383 TGATTTGTAAAAAAT 1409

RESULT 512
US-09-892-877-22
; Sequence 22, Application US/09892877
; Publication No. US20030077809A1

; GENERAL INFORMATION:
; APPLICANT: Ruben et. al.
; TITLE OF INVENTION: 97 Human secreted proteins
; FILE REFERENCE: P2028P1
; CURRENT APPLICATION NUMBER: US/09/892,877
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/437,658
; NUMBER OF SEQ ID NOS: 461
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 1447
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-892-877-22

Query Match 98.4%; Score 1324.6; DB 10; Length 1447;
Best Local Similarity 99.3%; Pred. No. 1.1e-290;
Matches 1338; Conservative 2; Mismatches 6; Indels 1; Gaps 1;

OY 1 GAAAGATGTTGGCTGCTCTTTTCTGCTGATGCTGCCATTCATGCTGAATCTGTCAA 60
DB 71 GAAAGATGTTGGCTGCTCTTTTCTGCTGATGCTGCCATTCATGCTGAATCTGTCAA 130
OY 61 CAGGTGCAAGAAATGCTTTTAAAGTGAAGATTAATGATGAGAAAGAGAGAGAGAGAGAGAGAGAG 120
DB 131 CAGGTGCAAGAAATGCTTTTAAAGTGAAGATTAATGATGAGAAAGAGAGAGAGAGAGAGAGAGAG 190
OY 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
DB 191 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 250
OY 181 AGAAAGTTCACCAAG 240
DB 251 AGAAAGTTCACCAAG 310
OY 241 CAGAGGATCATCTGCTTGTGTTGTTTACAGACCTTCAAAATATCAACCCCTCTGCT 300
DB 311 CAGAGGATCATCTGCTTGTGTTGTTTACAGACCTTCAAAATATCAACCCCTCTGCT 370
OY 301 GTTGAAGTGAATCAGCCATTAAGATGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
DB 371 GTTGAAGTGAATCAGCCATTAAGATGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 430
OY 361 AATGACCAAACTCTGGAATTTTAAATAATCCCTTCCACACTTTCACCAACCAACCAACCA 420
DB 431 AATGACCAAACTCTGGAATTTTAAATAATCCCTTCCACACTTTCACCAACCAACCAACCA 490
OY 421 TCTGTGCCACTGTGATTAATTAATTTGTGTGATATTTTGCATCATAGTTGCAATT 480
DB 491 TCTGTGCCACTGTGATTAATTAATTTGTGTGATATTTTGCATCATAGTTGCAATT 550
OY 481 GCACACTGATTTTATTCAGGATCTGGCAAGTAGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 540
DB 551 GCACACTGATTTTATTCAGGATCTGGCAAGTAGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 610
OY 541 GTGATGAGCTGGAAGATAGTGTGAAAACATGATCACAATGAAATGCAATGCAATGCAATGCAATG 600
DB 611 GTGATGAGCTGGAAGATAGTGTGAAAACATGATCACAATGAAATGCAATGCAATGCAATGCAATG 670
OY 601 GATCCCTCTGACATGAAGGG-GGGCATATTAATGATGCTTCAATGACAGAGATGAGAGG 659
DB 671 GATCCCTCTGACATGAAGGGAGGGCATATTAATGATGCTTCAATGACAGAGATGAGAGG 730
OY 660 CTCACCCCTCTCTGAAAGGCTGTGTTCTGCTTCTCTCAAGAAATTAACATTTGTTCTG 719
DB 731 CTCACCCCTCTCTGAAAGGCTGTGTTCTGCTTCTCTCAAGAAATTAACATTTGTTCTG 790
OY 720 TGTGACTGCTGAGCATCTGAAATACCAAGAGAGAGATCATATATTTTGTTCACCATCT 779
DB 791 TGTGACTGCTGAGCATCTGAAATACCAAGAGAGAGATCATATATTTTGTTCACCATCT 850
OY 780 TCTTTTGTATAAATTTTGAATGTGCTTGAAGTGAAGAAAGCAATCAATTAATCCACCA 839

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Db      851 TCTTTGTAATAAATTTTGAATGCTTGAAGTGAAGAAAGCAATCAATTATACCCACAA 910
Qy      840 CACCACTGAAATCATAGCTATATCAAGCTCAAAATATTTCTAAATATTTTTCAGACGT 899
      911 CACCACTGAAATCATAGCTATATCAAGCTCAAAATATTTCTAAATATTTTTCAGACGT 970
Qy      900 ATAGGTATAAATGCTCATGTGCTATTTGTAGTATTGATTGAACATTTTGAAGAT 959
      971 ATAGGTATAAATGCTCATGTGCTATTTGTAGTATTGATTGAACATTTTGAAGAT 1030
Qy      960 AAGATCAGCATATGATATATTTTCAACCTTCAAGACCTAAGGAAATTAATTTTCC 1019
      1031 AAGATCAGCATATGATATATTTTCAACCTTCAAGACCTAAGGAAATTAATTTTCC 1090
Db      1020 AGTGAGAAATACATATATATATGTTAGAAATCATTTGAATGCTTTTTCAGATC 1079
      1091 AGTGAGAAATACATATATATATGTTAGAAATCATTTGAATGCTTTTTCAGATC 1150
Qy      1080 ACTTATATCACTCTGATATATGACTAAGTAAACAAAGTGAAGTAAATTTGTAATGG 1139
      1151 ACTTATATCACTCTGATATATGACTAAGTAAACAAAGTGAAGTAAATTTGTAATGG 1210
Qy      1140 ATGATATAAATGGAATTTACTCATATACAGGGTGAATTTTATCTGTTATCACACCAAC 1199
      1211 ATGATATAAATGGAATTTACTCATATACAGGGTGAATTTTATCTGTTATCACACCAAC 1270
Db      1200 AGTTGATTATATATTTTCTGAATATCAGCCCTTAATAGACAATTTCTATTGTGACCAT 1259
      1271 AGTTGATTATATATTTTCTGAATATCAGCCCTTAATAGACAATTTCTATTGTGACCAT 1330
Qy      1260 TTCTACAATTTGTAAAGTCCAACTGTGCTAACTTAATAAGTAAATCATCTCTTTT 1319
      1331 TTCTACAATTTGTAAAGTCCAACTGTGCTAACTTAATAAGTAAATCATCTCTTTT 1390
Db      1320 TAAAAAATGGAATTTTAAAGTCCAACTGTGCTAACTTAATAAGTAAATCATCTCTTTT 1346
      1391 TGATTTGTGAAAAAATGGAATTTTAAAGTCCAACTGTGCTAACTTAATAAGTAAATCATCTCTTTT 1417
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RESULT 513

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US-09-948-783-22
; Sequence 22, Application US/09948783
; Publication No. US20030100051A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et. al.
; TITLE OF INVENTION: 97 Human secreted proteins
; FILE REFERENCE: P2028P2
; CURRENT APPLICATION NUMBER: US/09/948,783
; CURRENT FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/231,846
; PRIOR FILING DATE: 2000-09-11
; PRIOR APPLICATION NUMBER: 09/892,877
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: 09/437,658
; PRIOR FILING DATE: 1999-11-10
; PRIOR APPLICATION NUMBER: PCT/US99/09847
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/085,093
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/085,094
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/085,105
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/085,180
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/085,927
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,906
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,924
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,922
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; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,921
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,923
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,925
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,928
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,920
; PRIOR FILING DATE: 1998-05-18
; NUMBER OF SEQ ID NOS: 465
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 1447
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-948-783-22
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Query Match          98.4%; Score 1324.6; DB 10; Length 1447;
Best Local Similarity 99.3%; Pred. No. 1.1e-290;
Matches 1338; Conservative 2; Mismatches 6; Indels 1; Gaps 1;
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Qy      1 GAAAGATGTTGTCCTCTTTTCTGTCGTCGTCATTCATCTGAACTCTGCA 60
      71 GAAAGATGTTGTCCTCTTTTCTGTCGTCGTCATTCATCTGAACTCTGCA 130
Db      61 CCAAGTCAGAAATGCTTTTAAAGTGAAGTATGATCAGAACGCTCTGGAGATMAA 120
      131 CCAAGTCAGAAATGCTTTTAAAGTGAAGTATGATCAGAACGCTCTGGAGATMAA 190
Qy      121 GCATATGCTGGGATACCAATGAAGTATCTTCAAGCGATGCTTTCTCATG 180
      191 GCATATGCTGGGATACCAATGAAGTATCTTCAAGCGATGCTTTCTCATG 250
Db      181 AGAAAGTTCACCAAGAGCAAGAAATTTCCATGTCCTTTCAGATGTAAC 240
      251 AGAAAGTTCACCAAGAGCAAGAAATTTCCATGTCCTTTCAGATGTAAC 310
Qy      241 CAGAGGTATCATCTGTTGTGTTTACAGACCTTCAAAATGCAACCCCTCTGCT 300
      311 CAGAGGTATCATCTGTTGTGTTTACAGACCTTCAAAATGCAACCCCTCTGCT 370
Qy      301 GTTGAAGTGAATCAGCCATAGAAAGAACCGGATCAATGCTTCTTCTA 360
      371 GTTGAAGTGAATCAGCCATAGAAAGAACCGGATCAATGCTTCTTCTA 430
Qy      361 AATGACCAACTCTGGAATTTTAAATCCCTTCCACACTTGCAACCCATGACCA 420
      431 AATGACCAACTCTGGAATTTTAAATCCCTTCCACACTTGCAACCCATGACCA 490
Qy      421 TCTGCCCCATCTGATTAATTAATTTGTGTAATTTTGCATCATAGTTCATTT 480
      491 TCTGCCCCATCTGATTAATTAATTTGTGTAATTTTGCATCATAGTTCATTT 550
Db      481 GCACTACTGATTTTATCAGGATCTGGCAAGTGAAGAAAGAAAGAAACCATCTGAA 540
      551 GCACTACTGATTTTATCAGGATCTGGCAAGTGAAGAAAGAAAGAAACCATCTGAA 610
Qy      541 GTGATGACGCTGAAGATTAAGTGAAGAAACATGATCAATTTGAATGCGCTCT 600
      611 GTGATGACGCTGAAGATTAAGTGAAGAAACATGATCAATTTGAATGCGCTCT 670
Db      601 GATCCCTGACATGAAGGG-GGGCATTTAATGATGCTTCATGACAGAGATGAGAG 659
      671 GATCCCTGACATGAAGGGGAGGCAATTAATGATGCTTCATGACAGAGATGAGAG 730
Qy      660 CTCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCAAGAAATTAACATTTGTTCTG 719
      731 CTCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCAAGAAATTAACATTTGTTCTG 790
Qy      720 TGTGACTGCTGAGCATCTGAAATFACCAAGAGCATCATATATTTGTTTCAACATCT 779
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Db 791 TGTGACTGCTGAGCATCTGGAATACCAAGACAGATCATATATTTGTTTCAACCATCT 850
Qy 780 TCTTTGTAAATAATTTGAATGCTGTAAGTGAAGCAATCAATTAACCCACCAA 839
Db 851 TCTTTGTAAATAATTTGAATGCTGTAAGTGAAGCAATCAATTAACCCACCAA 910
Qy 840 CACCACTGAATCATAGCTATTCAGCACTCAAAATATTTCTAAATATTTTCTGACAGT 899
Db 911 CACCACTGAATCATAGCTATTCAGCACTCAAAATATTTCTAAATATTTTCTGACAGT 970
Qy 900 ATAGTATATAATGTGTCATGCTGATTTGATTTGATTTGATTTGATTTGATTTGATTT 959
Db 971 ATAGTATATAATGTGTCATGCTGATTTGATTTGATTTGATTTGATTTGATTTGATTT 1030
Qy 960 AAGATCAGCATATGATATATTTTCACTCAAGACCTAAGCAAAATTAATTTTCC 1019
Db 1031 AAGATCAGCATATGATATATTTTCACTCAAGACCTAAGCAAAATTAATTTTCC 1090
Qy 1020 AGTGAGATATACATATAATAGTGTAGAAATCATTTGAATGATCTTTTGAAGATC 1079
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Db 1151 ACTTATATCACTCTGATATGACTAAGTAACTAAAGTGAAGTAAATTAATTTGAATG 1210
Qy 1140 ATGATATAAATGGAATTTACTATATACAGGTGGAATTTATCTGTTATCACACCAAC 1199
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Qy 1320 TAAAAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 1346
Db 1391 TGATTGTGAAAAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 1417
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RESULT 514

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US-10-372-876-122
; Sequence 122, Application US/10372876
; Publication No. US20030204071A1
; GENERAL INFORMATION:
; APPLICANT: Moore, Paul A. et al.
; TITLE OF INVENTION: 110 Human Secreted Proteins
; FILE REFERENCE: P2021P1
; CURRENT FILING DATE: 2003-02-26
; PRIOR APPLICATION NUMBER: 09/334,595
; PRIOR FILING DATE: 1999-06-17
; PRIOR APPLICATION NUMBER: PCT/US98/27059
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: 60/070,923
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,007
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,057
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,006
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,369
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,367
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,368
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,169
; PRIOR FILING DATE: 1997-12-19
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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 122
; LENGTH: 1356
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1231)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-372-876-122

Query Match          97.0%; Score 1305; DB 13; Length 1356;
Best Local Similarity 99.0%; Pred. No. 2.9e-286;
Matches 1333; Conservative 0; Mismatches 11; Indels 2; Gaps 2;
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Qy 1 GAAAGATGTTGCTGCTGCTTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60
Db 12 GAAAGATGTTGCTGCTGCTTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 71
Qy 61 CCAAGTGCAGAAATGCTTTTAAAGTGAAGTATGATATGAGAAAGAGTCTGAGATGATA 120
Db 72 CCAAGTGCAGAAATGCTTTTAAAGTGAAGTATGATATGAGAAAGAGTCTGAGATGATA 131
Qy 121 GCATATGCTGAGATACCAATGAAGATACCTCTCAAGCGATGCTGCTGCTGCTGCTGCTGCT 180
Db 132 GCATATGCTGAGATACCAATGAAGATACCTCTCAAGCGATGCTGCTGCTGCTGCTGCTGCT 191
Qy 181 AGAAAGTTCACACAGAGAGCAAGAAATTTCCATGCTCTACTTTGCAATGTAACC 240
Db 192 AGAAAGTTCACACAGAGAGCAAGAAATTTCCATGCTCTACTTTGCAATGTAACC 251
Qy 241 CAGAGGATATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
Db 252 CAGA-GGATATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 310
Qy 301 GTTGAAGTCAATCAGCCATGAAGATGAAGCAAGACCGATCAACATGCTCTCTTCTA 360
Db 311 GTTGAAGTCAATCAGCCATGAAGATGAAGCAAGACCGATCAACATGCTCTCTTCTA 370
Qy 361 AATGACCAACTCTGGAATTTTAAAAATCCCTCCACACTTGCACACCCCATGGAACCA 420
Db 371 AATGACCAACTCTGGAATTTTAAAAATCCCTCCACACTTGCACACCCCATGGAACCA 430
Qy 421 TCTGTGCCACTCTGATATATATATTTGCTGATATTTTGCATCATAGTTGCAATT 480
Db 431 TCTGTGCCACTCTGATATATATATTTGCTGATATTTTGCATCATAGTTGCAATT 490
Qy 481 GCACTACTGATTTTATCAGGATCTGCAAGTGAAGAAAGAAAGAAAGAAAGAAAGAAAG 540
Db 491 GCACTACTGATTTTATCAGGATCTGCAAGTGAAGAAAGAAAGAAAGAAAGAAAGAAAG 550
Qy 541 GTGATGACCTGAAGATGAAGTGAAGAAAGATCAATGAAATGGATCCCTCT 600
Db 551 GTGATGACCTGAAGATGAAGTGAAGAAAGATCAATGAAATGGATCCCTCT 610
Qy 601 GATCCCTGACATGAAGG--GGCATATTAATGATGCTTATGACAGAGATGAGAGG 659
Db 611 GATCCCTGACATGAAGGAGGAGGATATTAATGATGCTTATGACAGAGATGAGAGG 670
Qy 660 CTCACCCCTCTGAAAGGCTGTTGTTCTGCTCTCTCAAGAAATTAACATTTGTTCTG 719
Db 671 CTCACCCCTCTGAAAGGCTGTTGTTCTGCTCTCTCAAGAAATTAACATTTGTTCTG 730
Qy 720 TGTGACTGCTGAGCATCTGAAATACCAAGACAGATCATATATTTTGTTCACCATCT 779
Db 731 TGTGACTGCTGAGCATCTGAAATACCAAGACAGATCATATATTTTGTTCACCATCT 790
Qy 780 TCTTTGTATAATAATTTGAATGTGCTTGAAGTGAAGCAATCAATTATACCAACCA 839
Db 791 TCTTTGTATAATAATTTGAATGTGCTTGAAGTGAAGCAATCAATTATACCAACCA 850
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| DB | 851 | CACCACTGAAATCATTAAGCTATTCCAGCACTCAAAAATATTCTTAAATAATTTTCTGACAGT | 910 |
| QY | 900 | ATAGTGTATAAATGTGGTCAATGCGTATTGTGAGTTATTGATTTAAGCAATTTTAGAAAT | 959 |
| DB | 911 | ATAGTGTATAAATGTGGTCAATGCGTATTGTGAGTTATTGATTTAAGCAATTTTAGAAAT | 970 |
| QY | 960 | AAGATCAGGCATATGTATATATTTTCCACACTTCAAAGACCTAAGSAAAAATAAATTTCC | 1019 |
| DB | 971 | AAGATCAGGCATATGTATATATTTTCCACACTTCAAAGACCTAAGSAAAAATAAATTTCC | 1030 |
| QY | 1020 | AGTGAGAAATACATATTAATATGGTGTAGAAATCATTTGAAATGATTCCTTTTGACGATC | 1079 |
| DB | 1031 | AGTGAGAGATACATATTAATATGGTGTAGAAATCATTTGAAATGATTCCTTTTGACGATC | 1090 |
| QY | 1080 | ACTTATATCACTCTGTATATGACTAAGTAACAACAAGTGAGAAGTAATATTGTAATGG | 1139 |
| DB | 1091 | ACTTATATCACTCTGTATATGACTAAGTAACAACAAGTGAGAAGTAATATTGTAATGG | 1150 |
| QY | 1140 | ATGATATAAAATGGAATTAATCACTCATATACAGGGTGAATTTATCTGTATACACACCAAC | 1199 |
| DB | 1151 | ATGATATAAAATGGAATTAATCACTCATATACAGGGTGAATTTATCTGTATACACACCAAC | 1210 |
| QY | 1200 | AGTGTATTATATTTCTGAATATCAGCCCTTAATAGGACAATTCATTTGTGACCAT | 1259 |
| DB | 1211 | AGTGTATTATATTTCTGAAATATCAGCCCTTAATAGGACAATTCATTTGTGACCAT | 1270 |
| QY | 1260 | TTCTACAAATTTGTAAAGTCCAATCTGTGCTAACTTAATTAAGTAATATCATCTCTTTT | 1319 |
| DB | 1271 | TTCTACAAATTTGTAAAGTCCAATCTGTGCTAACTTAATTAAGTAATATCATCCAAAAA | 1330 |
| QY | 1320 | TAAAAAATTT | 1345 |
| DB | 1331 | AAAAAAAAAAAAAAAAAAAAAAAAAAAAA | 1356 |

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RESULT 515
US-10-097-065-122
; Sequence 122, Application US/10097065
; Publication No. US20030055236A1
; GENERAL INFORMATION:
; APPLICANT: Moore, Paul A. et al.
; TITLE OF INVENTION: 110 Human Secreted Proteins
; FILE REFERENCE: P2021P1
; CURRENT APPLICATION NUMBER: US/10/097,065
; CURRENT FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 1998-12-17
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/070,923
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,007
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,057
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,006
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,369
; PRIOR FILING DATE: 1997-12-19
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; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,368
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,169
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,053
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,064
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,054
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,008
; PRIOR FILING DATE: 1997-12-18

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? PRIOR APPLICATION NUMBER: 60/068,365
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? PRIOR FILING DATE: 1997-12-19
? NUMBER OF SEQ ID NOS: 672
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 122
? LENGTH: 1356
?
? TYPE: DNA
?
? ORGANISM: Homo sapiens
?
? FEATURE:
?
? NAME/KEY: SITE
? LOCATION: (1231)
?
? OTHER INFORMATION: n equals a,t,g, or c
US-10-097-065-122

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| Query Match | 97.0% | Score 1305; | DB 15; | Length 1356; |
| Best Local Similarity | 99.0% | Pred. No. 2.9e-286; | | |
| Matches 1333; Conservative | 0; | Mismatches 11; | Indels 2; | Gaps 2; |

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| QY | 1 | GAAAGAATGTTGTGGCTGCTCTTTTCTGTGTACTGCCATTCACTGTGA | 60 |
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| Db | 12 | GAAAGAATGTTGTGGCTGCTCTTTTCTGTGTACTGCCATTCACTGTGA | 71 |
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| QY | 61 | CCAGGTGCAGAAAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGAGATPAA | 120 |
| | | | |
| Db | 72 | CCAGGTGCAGAAAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGAGATPAA | 131 |
| | | | |
| QY | 121 | GCAATATGCCCTGGGATACCAATGAGAATACCTCTTCAAGCGATGGTAGCTTCTCCATG | 180 |
| | | | |
| Db | 132 | GCAATATGCCCTGGGATACCAATGAGAATACCTCTTCAAGCGATGGTAGCTTCTCCATG | 191 |
| | | | |
| QY | 181 | AGAAAAAGTTCCTCCAAACAGAGAAGCAAACAGAAATTTCCCATGTCTTACTTTGCAATGTAAAC | 240 |
| | | | |
| Db | 192 | AGAAAAAGTTCCTCCAAACAGAGAAGCAAACAGAAATTTCCCATGTCTTACTTTGCAATGTAAAC | 251 |
| | | | |
| QY | 241 | CAGAGGGTATCATTTCTGTTGTGTGTACAGACCCCTTCAAAAAATCACACCCCTTCCGTCT | 300 |
| | | | |
| Db | 252 | CAGA-GGTATCATTTCTGTTGTGTGTACAGACCCCTTCAAAAAATCACACCCCTTCCGTCT | 310 |
| | | | |
| QY | 301 | GTTGAGGTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACATGCCCTTCTTCTA | 360 |
| | | | |
| Db | 311 | GTTGAGGTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACATGCCCTTCTTCTA | 370 |
| | | | |
| QY | 361 | AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCAACCCATGAGACCA | 420 |
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| Db | 371 | AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCAACCCATGAGACCA | 430 |
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| QY | 421 | TCTGTGCCCATCTGGAATTTATATTTGGTGTGATATTTTGCATCATAGTTGCAATT | 480 |
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| Db | 431 | TCTGTGCCCATCTGGAATTTATATTTGGTGTGATATTTTGCATCATAGTTGCAATT | 490 |
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| QY | 481 | GCACTACTGATTTTATCAGGGATCTGGCAACGTAGAAGAAAGAAACAAGAACCATCTGAA | 540 |
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| Db | 491 | GCACTACTGATTTTATCAGGGATCTGGCAACGTAGAAGAAAGAAACAAGAACCATCTGAA | 550 |
| | | | |
| QY | 541 | GTTGATGACGCTGAGATATACTGTGAAAACATGATCACAATTGAAAATGGCATGCCCTCT | 600 |
| | | | |
| Db | 551 | GTTGATGACGCTGAGATATACTGTGAAAACATGATCACAATTGAAAATGGCATGCCCTCT | 610 |
| | | | |
| QY | 601 | GATCCCTTGGACATGAAGGG-GGGCATATTAATGATGCCCTTCAATGACAGAGATGAGAGG | 659 |
| | | | |
| Db | 611 | GATCCCTTGGACATGAAGGGAGGGCATATTAATGATGCCCTTCAATGACAGAGATGAGAGG | 670 |
| | | | |
| QY | 660 | CTCACCCCTCTCTGAAGGGCTGTGTCTGCTTCCCTCAAGAAATTAAACATTTGTCTTG | 719 |
| | | | |
| Db | 671 | CTCACCCCTCTCTGAAGGGCTGTGTCTGCTTCCCTCAAGAAATTAAACATTTGTCTTG | 730 |
| | | | |
| QY | 720 | TGTGACTGCTGAGCATCTCGAAATPACCAAGAGCAGATCATATATTTGTTCACCATCT | 779 |
| | | | |
| Db | 731 | TGTGACTGCTGAGCATCTCGAAATPACCAAGAGCAGATCATATATTTGTTCACCATCT | 790 |
| | | | |
| QY | 780 | TCTTTGTATATAATTTTGAATGTCTTGAAAGTGAAGAAAGCAATCAATTATACCAACAA | 839 |
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| Db | 791 | TCTTTGTATATAATTTTGAATGTCTTGAAAGTGAAGAAAGCAATCAATTATACCAACAA | 850 |
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QY 840 CACCCTGAAATCATTAAGCTATTTCAGAGCTCAAAATATTCTTAATAATATTTTCTGACAGT 899
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Db 851 CACCCTGAAATCATTAAGCTATTTCAGAGCTCAAAATATTCTTAATAATATTTTCTGACAGT 910
QY 900 ATAGGTATTAATGTGCTCATGTGCTATTGTTAGTATTGATTTAAGCATTTTGAAGAT 959
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Db 911 ATAGGTATTAATGTGCTCATGTGCTATTGTTAGTATTGATTTAAGCATTTTGAAGAT 970
QY 960 AAGATCAGGATATGTATATATTTTTCACACTTCAAAAGACTTAAGGAAATTAATTTTCC 1019
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Db 971 AAGATCAGGATATGTATATATTTTTCACACTTCAAAAGACTTAAGGAAATTAATTTTCC 1030
QY 1020 AGTGAGAAATACATATATAATGTGTGAGAAATCATTTGAAATGATCCTTTTGAAGATC 1079
| | | | |
Db 1031 AGTGAGAAATACATATATAATGTGTGAGAAATCATTTGAAATGATCCTTTTGAAGATC 1090
QY 1080 ACTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAGAGTAATTATGTAAATGG 1139
| | | | |
Db 1091 ACTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAGAGTAATTATGTAAATGG 1150
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QY 1200 AGTTGATTAATATTTTCTGATATATCAGCCCTTAATAGACAAATTTGTTGACCAT 1259
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QY 1260 TTCTACAAATTTGTAAAGTCCAACTCTGTCTAACTTAATTAAGTAATATCACTCTTTT 1319
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Db 1331 AAAAAAATTT 1356

RESULT 516
US-10-133-013-205
; Sequence 205, Application US/10133013
; Publication No. US20030166903A1
; GENERAL INFORMATION:
; APPLICANT: Astromoff, Anna
; APPLICANT: Bandman, Olga
; APPLICANT: Cocks, Benjamin G.
; TITLE OF INVENTION: GENES ASSOCIATED WITH VASCULAR DISEASE
; FILE REFERENCE: PA-0049 US
; CURRENT APPLICATION NUMBER: US/10/133,013
; CURRENT FILING DATE: 2002-04-25
; PRIOR APPLICATION NUMBER: 60/287,067
; PRIOR FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 271
; SOFTWARE: PBR L Program
; SEQ ID NO 205
; LENGTH: 1312
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030166903A1 2580580CB1
US-10-133-013-205

Query Match 96.4%; Score 1297; DB 15; Length 1312;
Best Local Similarity 99.9%; Pred. No. 1.9e-284;
Matches 1308; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

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Db 3 GAAAGATGTTGTGCTCTTTTCTGAGCTGCAATTCATGCTGAAGCTCTGTCAA 62
QY 61 CCAGTGCAGAAATGCTTTTAAAGTGAGACTTAGATGAGACAGCTCGGAGATAAA 120
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Db 63 CCAGTGCAGAAATGCTTTTAAAGTGAGACTTAGATGAGACAGCTCGGAGATAAA 122
QY 121 GCATATGCTGGGATACCAATGAGAATACCTTCAAGCGATGAGCTTCTCATG 180
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Db 123 GCATATGCTGGGATACCAATGAGAATACCTTCAAGCGATGAGCTTCTCATG 182
QY 181 AGAAAGTCCCAACAGAGAACCAAGAAATTTCCATGTCTCATTTGCAATGTAAAC 240
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QY 241 CAGAGGTATCATTTCTGTTGTGTGTTACAGACCTTCAAAAAATCACACCTCTGCT 300
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Db 243 CAGAGGTATCATTTCTGTTGTGTGTTACAGACCTTCAAAAAATCACACCTCTGCT 302
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QY 541 GTGATGACGCTGAAGATTAAGTGAAGAAACATGATCACAATTGAAATGSCATCCCTCT 600
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Db 543 GTGATGACGCTGAAGATTAAGTGAAGAAACATGATCACAATTGAAATGSCATCCCTCT 602
QY 601 GATCCCTGACATGAAGGG-GGGCATATTATGATGCTTCTGATGACAGAGATGAGAG 659
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QY 720 TCTGACTGCTGAGCATCTCTGAATAACCAAGACAGATCATATATTTTGTTCACCATCT 779
| | | | |
Db 723 TCTGACTGCTGAGCATCTCTGAATAACCAAGACAGATCATATATTTTGTTCACCATCT 782
QY 780 TCTTTGTATTAATTTTGAATGTGCTTGAAGTGAAGAAAGCAATTAATTAACCAACAA 839
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QY 840 CACCCTGAAATCATTAAGCTATTCACGACTCAAAATATTCTTAATAATTTTCTGACAGT 899
| | | | |
Db 843 CACCCTGAAATCATTAAGCTATTCACGACTCAAAATATTCTTAATAATTTTCTGACAGT 902
QY 900 ATAGGTATTAATGTGCTCATGTGCTATTGTTAGTATTGATTTAAGCATTTTGAAGAT 959
| | | | |
Db 903 ATAGGTATTAATGTGCTCATGTGCTATTGTTAGTATTGATTTAAGCATTTTGAAGAT 962
QY 960 AAGATCAGGATATGTATATATTTTTCACACTTCAAAAGACTTAAGGAAATTAATTTTCC 1019
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Db 963 AAGATCAGGATATGTATATATTTTTCACACTTCAAAAGACTTAAGGAAATTAATTTTCC 1022
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Db 1083 ACTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAGAGTAATTATGTAAATGG 1142
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Oy 1200 AGTGATTATATATTTTCTGAATATCAGCCCCCTAATAGACAATTCTATTGTGACCAT 1259
Db 1203 AGTGATTATATATTTTCTGAATATCAGCCCCCTAATAGACAATTCTATTGTGACCAT 1262
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Search completed: June 6, 2004, 16:41:21
Job time : 772.663 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 6, 2004, 07:26:44 ; Search time 258.223 Seconds
(without alignments)
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Title: US-09-989-724-386_COPY_7_644
Perfect score: 638
Sequence: 1 atgttgtgctgctcttctt.....atataatgatgctcttcacg 638

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues
Total number of hits satisfying chosen parameters: 234

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 80%
Minimum Match 100%
Listing first 65000 summaries

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| 2: | geneseqn1990s:* |
| 3: | geneseqn2000s:* |
| 4: | geneseqn2001as:* |
| 5: | geneseqn2001bs:* |
| 6: | geneseqn2002s:* |
| 7: | geneseqn2003as:* |
| 8: | geneseqn2003bs:* |
| 9: | geneseqn2003cs:* |
| 10: | geneseqn2004s:* |

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB | ID | Description |
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| 1 | 638 | 100.0 | 1346 | 3 | AAZ65097 | Aaz65097 Membrane- |
| 2 | 638 | 100.0 | 1346 | 3 | AAC58612 | Aac58612 Human PRO |
| 3 | 638 | 100.0 | 1346 | 3 | AAA77680 | Aaa77680 Human PRO |
| 4 | 638 | 100.0 | 1346 | 4 | AAS21484 | Aaa21484 Human PRO |
| 5 | 638 | 100.0 | 1346 | 5 | AAF44243 | Aaf44243 Human PRO |
| 6 | 638 | 100.0 | 1346 | 7 | ABX77959 | Abx77959 Human PRO |
| 7 | 638 | 100.0 | 1346 | 7 | ABX80371 | Abx80371 Novel hum |
| 8 | 638 | 100.0 | 1346 | 7 | ACA69277 | Aca69277 Human PRO |
| 9 | 638 | 100.0 | 1346 | 7 | ACD24093 | Acd24093 Novel hum |
| 10 | 638 | 100.0 | 1346 | 7 | ABX90348 | Abx90348 Human sec |
| 11 | 638 | 100.0 | 1346 | 7 | ABX64194 | Abx64194 CDNA enco |
| 12 | 638 | 100.0 | 1346 | 7 | ACA67234 | Aca67234 CDNA enco |
| 13 | 638 | 100.0 | 1346 | 7 | ACA64416 | Aca64416 Novel hum |
| 14 | 638 | 100.0 | 1346 | 7 | ACA03843 | Aca03843 CDNA enco |
| 15 | 638 | 100.0 | 1346 | 7 | ABX89381 | Abx89381 DNA enco |
| 16 | 638 | 100.0 | 1346 | 7 | ABX80875 | Abx80875 Human sec |
| 17 | 638 | 100.0 | 1346 | 7 | ACD44384 | Acd44384 CDNA enco |
| 18 | 638 | 100.0 | 1346 | 7 | ACD42035 | Acd42035 Human sec |
| 19 | 638 | 100.0 | 1346 | 7 | ABX79555 | Abx79555 Human sec |
| 20 | 638 | 100.0 | 1346 | 7 | ACA93576 | Aca93576 Novel hum |
| 21 | 638 | 100.0 | 1346 | 7 | ABX81258 | Abx81258 Novel hum |
| 22 | 638 | 100.0 | 1346 | 7 | ACA04264 | Aca04264 Human CDN |
| 23 | 638 | 100.0 | 1346 | 7 | ACA93074 | Aca93074 Novel hum |

| | | | | | | |
|----|-----|-------|------|---|----------|--------------------|
| 24 | 638 | 100.0 | 1346 | 7 | ABX17158 | Abx17158 Human PRO |
| 25 | 638 | 100.0 | 1346 | 8 | ACA68013 | Aca68013 Novel hum |
| 26 | 638 | 100.0 | 1346 | 8 | ACA88462 | Aca88462 Human sec |
| 27 | 638 | 100.0 | 1346 | 8 | ACD81969 | Acd81969 CDNA enco |
| 28 | 638 | 100.0 | 1346 | 8 | ADA46000 | Ada46000 Novel hum |
| 29 | 638 | 100.0 | 1346 | 8 | ADA76431 | Ada76431 Human PRO |
| 30 | 638 | 100.0 | 1346 | 8 | ADA19081 | Ada19081 Human PRO |
| 31 | 638 | 100.0 | 1346 | 8 | ADA61704 | Ada61704 Homo sapi |
| 32 | 638 | 100.0 | 1346 | 8 | ADB19489 | Adb19489 Novel hum |
| 33 | 638 | 100.0 | 1346 | 8 | ADB28030 | Adb28030 CDNA enco |
| 34 | 638 | 100.0 | 1346 | 8 | ADA86509 | Ada86509 Novel hum |
| 35 | 638 | 100.0 | 1346 | 8 | ADB16073 | Adb16073 Human PRO |
| 36 | 638 | 100.0 | 1346 | 8 | ADA47859 | Ada47859 Human PRO |
| 37 | 638 | 100.0 | 1346 | 8 | ADA21583 | Ada21583 Human CDN |
| 38 | 638 | 100.0 | 1346 | 8 | ADA10370 | Ada10370 Human CDN |
| 39 | 638 | 100.0 | 1346 | 8 | ADA67654 | Ada67654 Human PRO |
| 40 | 638 | 100.0 | 1346 | 8 | ADB30661 | Adb30661 CDNA enco |
| 41 | 638 | 100.0 | 1346 | 8 | ADA85957 | Ada85957 Novel hum |
| 42 | 638 | 100.0 | 1346 | 8 | ADA17914 | Ada17914 CDNA enco |
| 43 | 638 | 100.0 | 1346 | 8 | ADA97169 | Ada97169 Human PRO |
| 44 | 638 | 100.0 | 1346 | 8 | ADA79473 | Ada79473 Human PRO |
| 45 | 638 | 100.0 | 1346 | 8 | ADA87612 | Ada87612 Novel hum |
| 46 | 638 | 100.0 | 1346 | 8 | ADB16814 | Adb16814 Human PRO |
| 47 | 638 | 100.0 | 1346 | 8 | ADA28022 | Ada28022 Human CDN |
| 48 | 638 | 100.0 | 1346 | 8 | ADA91906 | Ada91906 Novel hum |
| 49 | 638 | 100.0 | 1346 | 8 | ADB14969 | Adb14969 Human PRO |
| 50 | 638 | 100.0 | 1346 | 8 | ADB18930 | Adb18930 Novel hum |
| 51 | 638 | 100.0 | 1346 | 8 | ADA94145 | Ada94145 Human PRO |
| 52 | 638 | 100.0 | 1346 | 8 | ADB20041 | Adb20041 Novel hum |
| 53 | 638 | 100.0 | 1346 | 8 | ADB13353 | Adb13353 Human PRO |
| 54 | 638 | 100.0 | 1346 | 8 | ACD98664 | Acd98664 Novel hum |
| 55 | 638 | 100.0 | 1346 | 8 | ADA94602 | Ada94602 Human CDN |
| 56 | 638 | 100.0 | 1346 | 8 | ADA74607 | Ada74607 Human PRO |
| 57 | 638 | 100.0 | 1346 | 8 | ADB24840 | Adb24840 Human PRO |
| 58 | 638 | 100.0 | 1346 | 8 | ADA82364 | Ada82364 Human PRO |
| 59 | 638 | 100.0 | 1346 | 8 | ADA75327 | Ada75327 Human PRO |
| 60 | 638 | 100.0 | 1346 | 8 | ADA85405 | Ada85405 Novel hum |
| 61 | 638 | 100.0 | 1346 | 8 | ADA84853 | Ada84853 Novel hum |
| 62 | 638 | 100.0 | 1346 | 8 | ADB30109 | Adb30109 CDNA enco |
| 63 | 638 | 100.0 | 1346 | 8 | ADA80637 | Ada80637 Human PRO |
| 64 | 638 | 100.0 | 1346 | 8 | ADA75879 | Ada75879 Human PRO |
| 65 | 638 | 100.0 | 1346 | 8 | ADA38827 | Ada38827 Human CDN |
| 66 | 638 | 100.0 | 1346 | 8 | ADA47104 | Ada47104 Human PRO |
| 67 | 638 | 100.0 | 1346 | 8 | ADB25400 | Adb25400 Human PRO |
| 68 | 638 | 100.0 | 1346 | 8 | ADA93576 | Ada93576 Human PRO |
| 69 | 638 | 100.0 | 1346 | 8 | ADB26926 | Adb26926 CDNA enco |
| 70 | 638 | 100.0 | 1346 | 8 | ADA92948 | Ada92948 Human CDN |
| 71 | 638 | 100.0 | 1346 | 8 | ADA61141 | Ada61141 Homo sapi |
| 72 | 638 | 100.0 | 1346 | 8 | ADA24288 | Ada24288 Human PRO |
| 73 | 638 | 100.0 | 1346 | 8 | ADA96617 | Ada96617 Human PRO |
| 74 | 638 | 100.0 | 1346 | 8 | ADA81189 | Ada81189 Human PRO |
| 75 | 638 | 100.0 | 1346 | 8 | ADB26374 | Adb26374 CDNA enco |
| 76 | 638 | 100.0 | 1346 | 8 | ADA77638 | Ada77638 Human PRO |
| 77 | 638 | 100.0 | 1346 | 8 | ADA18378 | Ada18378 CDNA enco |
| 78 | 638 | 100.0 | 1346 | 8 | ADA87061 | Ada87061 Novel hum |
| 79 | 638 | 100.0 | 1346 | 8 | ADA88164 | Ada88164 Novel hum |
| 80 | 638 | 100.0 | 1346 | 8 | ADA46552 | Ada46552 Novel hum |
| 81 | 638 | 100.0 | 1346 | 8 | ADB28582 | Adb28582 CDNA enco |
| 82 | 638 | 100.0 | 1346 | 8 | ADA29134 | Ada29134 CDNA enco |
| 83 | 638 | 100.0 | 1346 | 8 | ACH65530 | Ach65530 Human CDN |
| 84 | 638 | 100.0 | 1346 | 8 | ADA77086 | Ada77086 Human PRO |
| 85 | 638 | 100.0 | 1346 | 8 | ADA22509 | Ada22509 Human CDN |
| 86 | 638 | 100.0 | 1346 | 8 | ADA88716 | Ada88716 Novel hum |
| 87 | 638 | 100.0 | 1346 | 8 | ADA97721 | Ada97721 Human PRO |
| 88 | 638 | 100.0 | 1346 | 8 | ADB27478 | Adb27478 CDNA enco |
| 89 | 638 | 100.0 | 1346 | 8 | ACD39520 | Acd39520 Human CDN |
| 90 | 638 | 100.0 | 1346 | 8 | ADA06675 | Ada06675 Human sec |
| 91 | 638 | 100.0 | 1346 | 8 | ADA39368 | Ada39368 Human CDN |
| 92 | 638 | 100.0 | 1346 | 8 | | |
| 93 | 638 | 100.0 | 1346 | 8 | | |
| 94 | 638 | 100.0 | 1346 | 8 | | |
| 95 | 638 | 100.0 | 1346 | 8 | | |
| 96 | 638 | 100.0 | 1346 | 8 | | |

| | | | | | | |
|-----|-----|-------|------|---|-----------|---------------------|
| 97 | 638 | 100.0 | 1346 | 8 | ADA671102 | Ada671102 Human PRO |
| 98 | 638 | 100.0 | 1346 | 8 | ADB222963 | Adb222963 Human PRO |
| 99 | 638 | 100.0 | 1346 | 8 | ADB23736 | Adb23736 Human PRO |
| 100 | 638 | 100.0 | 1346 | 8 | ADA92458 | Ada92458 Novel hum |
| 101 | 638 | 100.0 | 1346 | 8 | ADB15521 | Adb15521 Human PRO |
| 102 | 638 | 100.0 | 1346 | 8 | ADB38773 | Adb38773 Novel hum |
| 103 | 638 | 100.0 | 1346 | 8 | ADB96394 | Adb96394 Human PRO |
| 104 | 638 | 100.0 | 1346 | 8 | ADB38221 | Adb38221 Novel hum |
| 105 | 638 | 100.0 | 1346 | 9 | ADB66693 | Adb66693 Novel hum |
| 106 | 638 | 100.0 | 1346 | 9 | ADB89773 | Adb89773 Human PRO |
| 107 | 638 | 100.0 | 1346 | 9 | ADB90505 | Adb90505 Human PRO |
| 108 | 638 | 100.0 | 1346 | 9 | ADB39606 | Adb39606 Novel hum |
| 109 | 638 | 100.0 | 1346 | 9 | ADB47229 | Adb47229 Novel hum |
| 110 | 638 | 100.0 | 1346 | 9 | ADB86836 | Adb86836 Human PRO |
| 111 | 638 | 100.0 | 1346 | 9 | ADB77441 | Adb77441 Novel hum |
| 112 | 638 | 100.0 | 1346 | 9 | ADB34598 | Adb34598 Human PRO |
| 113 | 638 | 100.0 | 1346 | 9 | ADB35702 | Adb35702 Human PRO |
| 114 | 638 | 100.0 | 1346 | 9 | ADB34046 | Adb34046 Human PRO |
| 115 | 638 | 100.0 | 1346 | 9 | ADB35150 | Adb35150 Human PRO |
| 116 | 638 | 100.0 | 1346 | 9 | ADB36254 | Adb36254 Human PRO |
| 117 | 638 | 100.0 | 1346 | 9 | ADB46649 | Adb46649 Novel hum |
| 118 | 638 | 100.0 | 1346 | 9 | ADC57866 | Adc57866 Human PRO |
| 119 | 638 | 100.0 | 1346 | 9 | ADC55230 | Adc55230 Human PRO |
| 120 | 638 | 100.0 | 1346 | 9 | ADC12097 | Adc12097 Human PRO |
| 121 | 638 | 100.0 | 1346 | 9 | ADC56519 | Adc56519 Human PRO |
| 122 | 638 | 100.0 | 1346 | 9 | ADC07574 | Adc07574 Human PRO |
| 123 | 638 | 100.0 | 1346 | 9 | ADC11564 | Adc11564 Human PRO |
| 124 | 638 | 100.0 | 1346 | 9 | ADC50522 | Adc50522 Novel hum |
| 125 | 638 | 100.0 | 1346 | 9 | ADC72069 | Adc72069 Novel hum |
| 126 | 638 | 100.0 | 1346 | 9 | ADC60048 | Adc60048 Novel hum |
| 127 | 638 | 100.0 | 1346 | 9 | ADC53055 | Adc53055 Novel hum |
| 128 | 638 | 100.0 | 1346 | 9 | ADC57409 | Adc57409 Novel hum |
| 129 | 638 | 100.0 | 1346 | 9 | ADC60600 | Adc60600 Novel hum |
| 130 | 638 | 100.0 | 1346 | 9 | ADC51075 | Adc51075 Novel hum |
| 131 | 638 | 100.0 | 1346 | 9 | ADC65602 | Adc65602 Human PRO |
| 132 | 638 | 100.0 | 1346 | 9 | ADC54700 | Adc54700 Novel hum |
| 133 | 638 | 100.0 | 1346 | 9 | ADC53661 | Adc53661 Novel hum |
| 134 | 638 | 100.0 | 1346 | 9 | ADC59184 | Adc59184 Novel hum |
| 135 | 638 | 100.0 | 1346 | 9 | ADC56062 | Adc56062 Novel hum |
| 136 | 638 | 100.0 | 1346 | 9 | ADC58632 | Adc58632 Novel hum |
| 137 | 638 | 100.0 | 1346 | 9 | ADC14686 | Adc14686 Novel hum |
| 138 | 638 | 100.0 | 1346 | 9 | ADC08218 | Adc08218 Novel hum |
| 139 | 638 | 100.0 | 1346 | 9 | ADC03306 | Adc03306 Novel hum |
| 140 | 638 | 100.0 | 1346 | 9 | ADC90298 | Adc90298 Novel hum |
| 141 | 638 | 100.0 | 1346 | 9 | ADC82043 | Adc82043 Human PRO |
| 142 | 638 | 100.0 | 1346 | 9 | ADC69717 | Adc69717 cDNA enco |
| 143 | 638 | 100.0 | 1346 | 9 | ADC48606 | Adc48606 Human PRO |
| 144 | 638 | 100.0 | 1346 | 9 | ADC10135 | Adc10135 Human PRO |
| 145 | 638 | 100.0 | 1346 | 9 | ADC07685 | Adc07685 Novel hum |
| 146 | 638 | 100.0 | 1346 | 9 | ADC04710 | Adc04710 Novel hum |
| 147 | 638 | 100.0 | 1346 | 9 | ADC82576 | Adc82576 Human PRO |
| 148 | 638 | 100.0 | 1346 | 9 | ADC80666 | Adc80666 Novel hum |
| 149 | 638 | 100.0 | 1346 | 9 | ADC11173 | Adc11173 Human PRO |
| 150 | 638 | 100.0 | 1346 | 9 | ADC48054 | Adc48054 Human PRO |
| 151 | 638 | 100.0 | 1346 | 9 | ADC08756 | Adc08756 Novel hum |
| 152 | 638 | 100.0 | 1346 | 9 | ADC80114 | Adc80114 Novel hum |
| 153 | 638 | 100.0 | 1346 | 9 | ADC07005 | Adc07005 Novel hum |
| 154 | 638 | 100.0 | 1346 | 9 | ADC09583 | Adc09583 Human PRO |
| 155 | 638 | 100.0 | 1346 | 9 | ADC83252 | Adc83252 Human PRO |
| 156 | 638 | 100.0 | 1346 | 9 | ADC41296 | Adc41296 Novel hum |
| 157 | 638 | 100.0 | 1346 | 9 | ADC52435 | Adc52435 cDNA enco |
| 158 | 638 | 100.0 | 1346 | 9 | ADC53175 | Adc53175 cDNA enco |
| 159 | 638 | 100.0 | 1346 | 9 | ADC53727 | Adc53727 Novel hum |
| 160 | 638 | 100.0 | 1346 | 9 | ADC55359 | Adc55359 Human PRO |
| 161 | 638 | 100.0 | 1346 | 9 | ADC56317 | Adc56317 Human PRO |
| 162 | 638 | 100.0 | 1346 | 9 | ADC51883 | Adc51883 cDNA enco |
| 163 | 638 | 100.0 | 1346 | 9 | ADC02682 | Adc02682 Human PRO |
| 164 | 638 | 100.0 | 1346 | 9 | ADC02116 | Adc02116 Human PRO |
| 165 | 638 | 100.0 | 1346 | 9 | ADC54298 | Adc54298 Novel hum |
| 166 | 638 | 100.0 | 1346 | 9 | ADC54755 | Adc54755 Human PRO |
| 167 | 638 | 100.0 | 1346 | 9 | ADC92615 | Adc92615 Human PRO |
| 168 | 638 | 100.0 | 1346 | 9 | ADC91511 | Adc91511 Human PRO |
| 169 | 638 | 100.0 | 1346 | 9 | ADC04125 | Adc04125 Human PRO |

| | | | | | | |
|-----|-------|-------|------|----|----------|--------------------|
| 170 | 638 | 100.0 | 1346 | 9 | ADE26909 | Adc26909 Novel hum |
| 171 | 638 | 100.0 | 1346 | 9 | ADE32422 | Adc32422 Novel hum |
| 172 | 638 | 100.0 | 1346 | 9 | ADE22354 | Adc22354 cDNA enco |
| 173 | 638 | 100.0 | 1346 | 9 | ADD79578 | Adc79578 cDNA enco |
| 174 | 638 | 100.0 | 1346 | 9 | ADA42114 | Ada42114 Human PRO |
| 175 | 638 | 100.0 | 1346 | 9 | AD317931 | Adc17931 Human PRO |
| 176 | 638 | 100.0 | 1346 | 9 | ADD92063 | Adc92063 Human PRO |
| 177 | 638 | 100.0 | 1346 | 9 | ADE33526 | Adc33526 Novel hum |
| 178 | 638 | 100.0 | 1346 | 9 | AD34078 | Adc4078 Novel hum |
| 179 | 638 | 100.0 | 1346 | 9 | AD380130 | Adc80130 cDNA enco |
| 180 | 638 | 100.0 | 1346 | 9 | AD393167 | Adc93167 Human PRO |
| 181 | 638 | 100.0 | 1346 | 9 | AD319587 | Adc19587 Human PRO |
| 182 | 638 | 100.0 | 1346 | 9 | AD319035 | Adc19035 Human PRO |
| 183 | 638 | 100.0 | 1346 | 9 | AD33231 | Adc3231 Human PRO |
| 184 | 638 | 100.0 | 1346 | 9 | AD36020 | Adc6020 Human PRO |
| 185 | 638 | 100.0 | 1346 | 9 | AD32906 | Adc22906 cDNA enco |
| 186 | 638 | 100.0 | 1346 | 9 | AD32974 | Adc32974 cDNA enco |
| 187 | 638 | 100.0 | 1346 | 9 | AD326376 | Adc26376 Novel hum |
| 188 | 638 | 100.0 | 1346 | 9 | AD32974 | Adc32974 Novel hum |
| 189 | 638 | 100.0 | 1346 | 9 | AD32666 | Adc42666 Human PRO |
| 190 | 638 | 100.0 | 1346 | 9 | AD30682 | Adc0682 cDNA enco |
| 191 | 638 | 100.0 | 1346 | 9 | AD39710 | Adc9710 Human PRO |
| 192 | 638 | 100.0 | 1346 | 9 | AD34094 | Adc4094 Human PRO |
| 193 | 638 | 100.0 | 1346 | 9 | AD34793 | Adc04793 Human PRO |
| 194 | 638 | 100.0 | 1346 | 10 | AD31218 | Adc81218 Novel hum |
| 195 | 638 | 100.0 | 1346 | 10 | AD37666 | Adc7666 Human PRO |
| 196 | 638 | 100.0 | 1346 | 10 | AD38030 | Adc8030 Human PRO |
| 197 | 638 | 100.0 | 1346 | 10 | AD36434 | Adc6434 Human PRO |
| 198 | 638 | 100.0 | 1346 | 10 | AD375882 | Adc75882 Human PRO |
| 199 | 638 | 100.0 | 1346 | 10 | AD323458 | Adc23458 cDNA enco |
| 200 | 638 | 100.0 | 1346 | 10 | AD34010 | Adc24010 cDNA enco |
| 201 | 638 | 100.0 | 1346 | 10 | AD324653 | Adc24653 cDNA enco |
| 202 | 638 | 100.0 | 1346 | 10 | AD37478 | Adc7478 Human PRO |
| 203 | 638 | 100.0 | 1346 | 10 | AD389344 | Adc89344 Human PRO |
| 204 | 638 | 100.0 | 1346 | 10 | AD318483 | Adc18483 Human PRO |
| 205 | 638 | 100.0 | 1346 | 10 | AD388792 | Adc88792 Human PRO |
| 206 | 627 | 98.3 | 666 | 4 | AA94460 | Aaf94460 Human hyd |
| 207 | 627 | 98.3 | 1347 | 4 | AA94470 | Aaf94470 Gene enco |
| 208 | 627 | 98.3 | 1432 | 7 | ADA56090 | Ada56090 Gene enco |
| 209 | 627 | 98.3 | 1432 | 7 | ADA39900 | Ada39900 Human sec |
| 210 | 627 | 98.3 | 1432 | 8 | ADA11489 | Ada11489 Human sec |
| 211 | 627 | 98.3 | 1432 | 9 | ADD37613 | Adc37613 Human sec |
| 212 | 626.6 | 98.2 | 1447 | 3 | AAZ65261 | Aaz65261 Human sec |
| 213 | 626.6 | 98.2 | 1447 | 9 | AD311650 | Adc11650 Human sec |
| 214 | 625.4 | 98.0 | 1345 | 7 | ABZ78127 | Abz78127 Human can |
| 215 | 625.4 | 98.0 | 1401 | 2 | AAV40540 | Aav40540 Homo sapi |
| 216 | 625 | 98.0 | 848 | 2 | AA319983 | Aax19983 Human sec |
| 217 | 625 | 98.0 | 848 | 2 | AA339430 | Aax39430 Human sec |
| 218 | 625 | 98.0 | 848 | 2 | AA341369 | Aax41369 Extended |
| 219 | 625 | 98.0 | 848 | 2 | AA397564 | Aax97564 Extended |
| 220 | 625 | 98.0 | 848 | 2 | AA340770 | Aax40770 Secretd |
| 221 | 625 | 98.0 | 848 | 2 | AA326672 | Aax26672 Extended |
| 222 | 625 | 98.0 | 848 | 2 | AA351777 | Aax51777 Human sec |
| 223 | 625 | 98.0 | 848 | 2 | AA351449 | Aax51449 Human sec |
| 224 | 625 | 98.0 | 848 | 2 | AA340428 | Aax40428 Extended |
| 225 | 625 | 98.0 | 848 | 2 | AA342251 | Aaz42251 Human ful |
| 226 | 625 | 98.0 | 848 | 3 | AA300012 | Aac00012 Human sec |
| 227 | 624.4 | 97.9 | 847 | 2 | AA38191 | Aax8191 Human sec |
| 228 | 623.4 | 97.7 | 847 | 2 | AA330083 | Aax30083 Human sec |
| 229 | 616 | 96.6 | 1365 | 4 | AAH98224 | Aah98224 Human EST |
| 230 | 615 | 96.4 | 1356 | 2 | AA397957 | Aax97957 Human sec |
| 231 | 615 | 96.4 | 1356 | 7 | ADA56545 | Ada56545 Gene enco |
| 232 | 615 | 96.4 | 1356 | 7 | ADA40381 | Ada40381 Human sec |
| 233 | 615 | 96.4 | 1356 | 8 | ADA11594 | Ada11594 Human CDN |
| 234 | 615 | 96.4 | 1356 | 9 | ADD37752 | Adc37752 Human sec |

ALIGNMENTS

RESULT 1
AAZ65097
ID AAZ65097 standard; cDNA; 1346 BP.

PT stimulating release of TNF-alpha from human blood.
XX
PS Claim 2; SEQ ID NO 481; 638bp; English.

CC The invention relates to isolated human PRO polypeptides (secreted and
CC transmembrane polypeptides) and the polynucleotides encoding them. The
CC invention also relates to an antibody which specifically binds to a PRO
CC polypeptide, a method for stimulating the release of tumour necrosis
CC factor-alpha (TNF-alpha) from human blood, a method for stimulating the
CC proliferation or differentiation of chondrocyte cells and a method for
CC detecting the presence of a tumour in a mammal (e.g. adrenal, lung,
CC colon, breast, prostate, rectal, kidney, cervical and liver tumours). The
CC polynucleotides are useful in molecular biology, including uses as
CC hybridisation probes, in chromosome and gene mapping, in generating
CC antisense RNA and DNA and in gene therapy. The polynucleotides may also
CC be used in preparing PRO polypeptides by recombinant techniques and in
CC generating either transgenic animals or knock-out animals which are
CC useful in the development and screening of therapeutically useful
CC reagents. The PRO polypeptides or antibodies are used in preparing a
CC medicament for treating a condition responsive to the polypeptides or
CC antibodies, such as tumours, for stimulating and inhibiting proliferation
CC of human microvascular endothelial cells, for modulating the uptake of
CC glucose or PPA by skeletal muscle cells or adipocyte cells, for
CC stimulating differentiation of adipocyte cells, for stimulating
CC proliferation of or gene expression in pericyte cells, for stimulating
CC the proliferation of inner ear utricular supporting cells or T-lymphocyte
CC cells, for inducing endothelial cell tube formation and for treating
CC various bone and/or cartilage disorders such as sports injuries and
CC arthritis. PRO polypeptides which stimulate the release of proteoglycans
CC from cartilage are useful for treating sports-related joint problems,
CC articular cartilage defects, osteoarthritis and rheumatoid arthritis. PRO
CC polypeptides are also useful for treating various mammalian haemoglobin-
CC associated disorders such as various thalassaemias and conditions which
CC may benefit from enhanced local immune system cell infiltration. This
CC sequence represents a human PRO polynucleotide of the invention. Note:
CC The sequence data for this patent is also available in electronic format
CC from USPTO at seqdata.uspto.gov/sequence.html.

XX
XX
SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Query Match 100.0%; Score 638; DB 10; Length 1346;
Best Local Similarity 100.0%; Pred. No. 1.1e-184;
Matches 638; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTTGCGCTCTTTTTCGTGAGTCCCATTCATGCTGAACCTGTGACACAGGT 60
DB 7 ATGTTGCGCTCTTTTTCGTGAGTCCCATTCATGCTGAACCTGTGACACAGGT 66
QY 61 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAACATAT 120
DB 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAACATAT 126
QY 121 GCCTGGATACCAATGAGAACTCTTCAAGCGATGAGCTTCTCCATGAGAAAA 180
DB 127 GCCTGGATACCAATGAGAACTCTTCAAGCGATGAGCTTCTCCATGAGAAAA 186
QY 181 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTCATGTAAACAGAGG 240
DB 187 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTCATGTAAACAGAGG 246
QY 241 GTATCATCTGTTGTGTGATACAGCCCTTCAAAAATCACACCCCTTCTGCTGTAG 300
DB 247 GTATCATCTGTTGTGTGATACAGCCCTTCAAAAATCACACCCCTTCTGCTGTAG 306
QY 301 GTGCAATCAGCATAGAAATGAAACAGACCGGATCAACAATGCTTCTTCTTAATGAC 360
DB 307 GTGCAATCAGCATAGAAATGAAACAGACCGGATCAACAATGCTTCTTCTTAATGAC 366
QY 361 CAAACTCTGAATTTTAAAAATCCCTTCCACACTGACACCCATGAGCCCATCTGTG 420
DB 367 CAAACTCTGAATTTTAAAAATCCCTTCCACACTGACACCCATGAGCCCATCTGTG 426
QY 421 CCCATCTGATTAATATATTGTTGATGATATTTCATCATCATAGTGAATTCACATA 480

DB 427 CCGATCTGATATATATTGTTGATATTTTGCATCATAGTTCGAATGCACTA 486
QY 481 CTGATTTTATCAGGATCTGCGAACCTAGAGAGAAACAAGAACCATCTGAAGTGAT 540
DB 487 CTGATTTTATCAGGATCTGCGAACCTAGAGAGAAACAAGAACCATCTGAAGTGAT 546
QY 541 GACGCTGAAGATAGTGTGAAAACATGATCACAATGAAAATGCGATCCCTCTGATCCC 600
DB 547 GACGCTGAAGATAGTGTGAAAACATGATCACAATGAAAATGCGATCCCTCTGATCCC 606
QY 601 CTGACATGAAGCGCGGCATATTATGATGCCCTTCATG 638
DB 607 CTGACATGAAGCGCGGCATATTATGATGCCCTTCATG 644

RESULT 206

AAF94460
ID AAF94460 standard; cDNA; 666 BP.
XX
AC AAF94460;
XX
DT 04-JUN-2001 (first entry)

XX
DB Human hydrophobic domain containing protein clone HP10720 cDNA #74.

XX
KW Human; hydrophobic domain; immunosuppressant; anti-HIV; neuroprotective;
KW antianemic; vulnerary; antilucer; osteopathic; anti-inflammatory;
KW cyrostatic; gene therapy; autoimmune disorder; multiple sclerosis;
KW HIV infection; anaemia; burn; ulcer; osteoporosis; tumour; wound healing;
KW inflammatory bowel disease; nutritional supplement; appetite; vaccine;
KW behavioural characteristic; immune response; ss.

XX
OS Homo sapiens.
XX
PN WO200112660-A2.
XX
PD 22-FEB-2001.

XX
PP 10-AUG-2000; 2000WO-JP005356.
XX
PR 17-AUG-1999; 99JP-00230344.
PR 07-SEP-1999; 99JP-00252551.
PR 01-OCT-1999; 99JP-00281132.
PR 22-OCT-1999; 99JP-00301624.
PR 04-NOV-1999; 99JP-00313877.

XX
PA (SAGA) SAGAMI CHEM RES CENT.
PA (PROT-) PROTEGENE INC.
PI Kato S, Kimura T;
XX

DR WPI; 2001-160059/16.
DR P-PSDB; AAB88580.

PT Human proteins with hydrophobic domains and the DNAs which encode them
PT are useful for treating autoimmune disorders, burns and tumors and for
PT screening novel pharmaceuticals.

PS Claim 3; Page 368; 518bp; English.

XX
CC AAF94417 to AAF94516 encode the human proteins given in AAB88557 to
CC AAB88606 (I) which have a hydrophobic domain. (I) have immunosuppressant,
CC anti-HIV, neuroprotective, antianemic, vulnerary, antilucer,
CC osteopathic, anti-inflammatory and cyrostatic activities, and can be used
CC in gene therapy. (I) can be used as pharmaceuticals and as antigens to
CC prepare antibodies. DNA and cDNA (II) encoding (I) can be used as probes
CC for genetic diagnosis and gene sources for gene therapy or for producing
CC (I) in large quantities. Cells containing (II) are used for the detection
CC of ligands or receptors corresponding to membrane or secretory proteins
CC and to screen small molecule novel pharmaceuticals. Antibodies directed
CC to (I) can be used for the detection, quantification and purification of
CC (I). Activities of (I) may include cytokine and cell

CC proliferation/differentiation function, immune stimulating or suppressing
CC activity, haematopoiesis regulating activity, tissue growth activity,
CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, receptor/ligand activity and anti-inflammatory
CC activity. (I) and (II) can be used to treat autoimmune disorders e.g.
CC multiple sclerosis, HIV infections, anaemia, burns, ulcers, osteoporosis,
CC inflammatory bowel disease and tumours. (I) and (II) can also be used for
CC wound healing, as nutritional sources or supplements e.g. as amino acid,
CC carbon or nitrogen source, to effect metabolism, catabolism, anabolism,
CC processing and utilisation of dietary fat, protein, carbohydrate,
CC vitamins and minerals, to effect behavioural characteristics, to affect
CC appetite, and can act as antigens in vaccines to raise an immune response
CC to the protein or another material cross-reactive with the protein
XX

SO Sequence 666 BP; 203 A; 148 C; 136 G; 179 T; 0 U; 0 Other;

Query Match 98.3%; Score 627; DB 4; Length 666;
Best Local Similarity 99.8%; Pred. No. 1.9e-181;
Matches 638; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTTGGGCTGCTCTTTTCTGTGAGTCCATTCATGCTGAAGTCTGTCAACAGGT 60
DB 1 ATGTTGGGCTGCTCTTTTCTGTGAGTCCATTCATGCTGAAGTCTGTCAACAGGT 60
QY 61 GCAGAAATGCTTTTAAGTGAAGACTTATGATCAGAACAGCTCTGGAGATAAGCATAT 120
DB 61 GCAGAAATGCTTTTAAGTGAAGACTTATGATCAGAACAGCTCTGGAGATAAGCATAT 120
QY 121 GCCTGGATACCAATGAGATACCTCTTCAAGCGATGCTTCTCCATGAGAAA 180
DB 121 GCCTGGATACCAATGAGATACCTCTTCAAGCGATGCTTCTCCATGAGAAA 180
QY 181 GTTCCCAACAGAGAACACAGAAATTTCCATGCTCTTCTTGAATGTAACCCAGAG 240
DB 181 GTTCCCAACAGAGAACACAGAAATTTCCATGCTCTTCTTGAATGTAACCCAGAG 240
QY 241 GTATCATTTCTGTTGTGTGTTACAGACCTTCAAAAATCACACCTTCTGCTGTGAG 300
DB 241 GTATCATTTCTGTTGTGTGTTACAGACCTTCAAAAATCACACCTTCTGCTGTGAG 300
QY 301 GTGCAATCAGCCATAGATGAAACAGAACCGGATCAACATGCTTCTTCTAATGAC 360
DB 301 GTGCAATCAGCCATAGATGAAACAGAACCGGATCAACATGCTTCTTCTAATGAC 360
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACCAACCACCATCTGTG 420
DB 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACCAACCACCATCTGTG 420
QY 421 CCCATCTGGAATTATTAATTTGTGTGATATTGTCATCATCATAGTTGCAATGCACTA 480
DB 421 CCCATCTGGAATTATTAATTTGTGTGATATTGTCATCATCATAGTTGCAATGCACTA 480
QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAAAGAACCAATCTGAAAGTGAT 540
DB 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAAAGAACCAATCTGAAAGTGAT 540
QY 541 GACGCTGAAGATAGTGTGAAACATGATCACAATGAAATGGCATCCCTCTGATCCC 600
DB 541 GACGCTGAAGATAGTGTGAAACATGATCACAATGAAATGGCATCCCTCTGATCCC 600
QY 601 CTGACATGAAGGG-GGGCATATTATGATGCTTCATG 638
DB 601 CTGACATGAAGGGGAGGCGCATATTATGATGCTTCATG 639

RESULT 207
AAF94470
ID AAF94470 standard; cDNA; 1347 BP.

XX AAF94470;
AC XX;
DT 04-JUN-2001 (first entry)
XX

DE Human hydrophobic domain containing protein clone HP10720 cDNA #84.
XX
KW Human; hydrophobic domain; immunosuppressant; anti-HIV; neuroprotective;
KW antianaemic; vulnery; antitumor; osteopathic; anti-inflammatory;
KW cytostatic; gene therapy; autoimmune disorder; multiple sclerosis;
KW HIV infection; anaemia; burn; ulcer; osteoporosis; tumour; wound healing;
KW inflammatory bowel disease; nutritional supplement; appetite; vaccine;
KW behavioural characteristic; immune response; ss.
XX
OS Homo sapiens.
XX
PN M0200112660-A2.
XX
PD 22-FEB-2001.
XX
PF 10-AUG-2000; 2000WO-JP005356.
XX
PR 17-AUG-1999; 99JP-00230344.
PR 07-SBP-1999; 99JP-00252551.
PR 01-OCT-1999; 99JP-00281132.
PR 22-OCT-1999; 99JP-00301624.
PR 04-NOV-1999; 99JP-00313877.
XX
PA (SAGA) SAGAMI CHEM RES CENT.
PA (PROT-) PROTEGENE INC.
XX
PI Kato S, Kimura T;
XX
DR WPI; 2001-160059/16.
DR P-PSDB; AAB88580.
XX

PT Human proteins with hydrophobic domains and the DNA which encode them
PT are useful for treating autoimmune disorders, burns and tumors and for
PT screening novel pharmaceuticals.
XX
PS Claim 4; Page 384-386; 518pp; English.

XX AAF94417 to AAF94516 encode the human proteins given in AAB88557 to
CC AAB88606 (I) which have a hydrophobic domain. (I) have immunosuppressant,
CC anti-HIV, neuroprotective, antianaemic, vulnery, antitumor,
CC osteopathic, anti-inflammatory and cytostatic activities, and can be used
CC in gene therapy. (I) can be used as pharmaceuticals and as antigens to
CC prepare antibodies. DNA and cDNA (II) encoding (I) can be used as probes
CC for genetic diagnosis and gene sources for gene therapy or for producing
CC (I) in large quantities. Cells containing (II) are used for the detection
CC of ligands or receptors corresponding to membrane or secretory proteins
CC and to screen small molecule novel pharmaceuticals. Antibodies directed
CC to (I) can be used for the detection, quantification and purification of
CC (I). Activities of (I) may include cytokine and cell
CC proliferation/differentiation function, immune stimulating or suppressing
CC activity, haematopoiesis regulating activity, tissue growth activity,
CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, receptor/ligand activity and anti-inflammatory
CC activity. (I) and (II) can be used to treat autoimmune disorders e.g.
CC multiple sclerosis, HIV infections, anaemia, burns, ulcers, osteoporosis,
CC inflammatory bowel disease and tumours. (I) and (II) can also be used for
CC wound healing, as nutritional sources or supplements e.g. as amino acid,
CC carbon or nitrogen source, to effect metabolism, catabolism, anabolism,
CC processing and utilisation of dietary fat, protein, carbohydrate, to affect
CC vitamins and minerals, to effect behavioural characteristics, to affect
CC appetite, and can act as antigens in vaccines to raise an immune response
CC to the protein or another material cross-reactive with the protein
XX

SO Sequence 1347 BP; 434 A; 252 C; 243 G; 418 T; 0 U; 0 Other;

Query Match 98.3%; Score 627; DB 4; Length 1347;
Best Local Similarity 99.8%; Pred. No. 2.6e-181;
Matches 638; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTTGGGCTGCTCTTTTCTGTGAGTCCATTCATGCTGAAGTCTGTCAACAGGT 60
DB 26 ATGTTGGGCTGCTCTTTTCTGTGAGTCCATTCATGCTGAAGTCTGTCAACAGGT 85

QY 61 GCAGAAATGCTTTTAAAGTGAAGCTTAGTATCAGACAGCTCTGGAGATTAAGCATAT 120
DB 86 GCAGAAATGCTTTTAAAGTGAAGCTTAGTATCAGACAGCTCTGGAGATTAAGCATAT 145
QY 121 GCCTGGATACCAATGAAGATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 180
DB 146 GCCTGGATACCAATGAAGATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 205
QY 181 GTTCCCAACAGAGAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCCAGAG 240
DB 206 GTTCCCAACAGAGAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCCAGAG 265
QY 241 GTATCATTCTGTTGTGTTACAGACCCCTTCAAAAAATCACACCCTTCTGCTGTGAG 300
DB 266 GTATCATTCTGTTGTGTTACAGACCCCTTCAAAAAATCACACCCTTCTGCTGTGAG 325
QY 301 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCACAATGCTTTCTTAAATGAC 360
DB 326 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCACAATGCTTTCTTAAATGAC 385
QY 361 CAACTCTGAATTTTAAAAATCCCTTCCACACTTGCAACCCATGAGCCCATCTGTG 420
DB 386 CAACTCTGAATTTTAAAAATCCCTTCCACACTTGCAACCCATGAGCCCATCTGTG 445
QY 421 CCCATCTGATTTATATATTTGTTGATGATTTTTCATCATCATGATGCAATGCACTA 480
DB 446 CCCATCTGATTTATATATTTGTTGATGATTTTTCATCATCATGATGCAATGCACTA 505
QY 481 CTGATTTTATCAGGATCTGCAACGTAGAAGAAAGAACAAAGACCATCTGAAGTGAT 540
DB 506 CTGATTTTATCAGGATCTGCAACGTAGAAGAAAGAACAAAGACCATCTGAAGTGAT 565
QY 541 GACGCTGAAGATTAAGTGAAGACATGATCACAATGAAATGCGATCCCTCTGATCCC 600
DB 566 GACGCTGAAGATTAAGTGAAGACATGATCACAATGAAATGCGATCCCTCTGATCCC 625
QY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCATG 638
DB 626 CTGACATGAAGGAGGCGATATTAATGATGCTTCATG 664

RESULT 208
ADA56090
ID ADA56090 standard; DNA; 1432 BP.
XX
AC ADA56090;
XX
DT 20-NOV-2003 (first entry)
XX
DB Gene encoding human secreted protein #269.
XX
KW immunosuppressive; antiinflammatory; antiasclmatic; antiallergic;
KW cytosolic; cerebroprotective; neuroprotective; nootropic;
KW cardiovascular; antiarteriosclerotic; gene therapy;
KW human secreted protein; immune disorder; inflammation;
KW respiratory disorder; cancer; CNS disorder; neurodegenerative disorders;
KW inflammatory bowel disease; nephritis; Crohn's disease; asthma; allergy;
KW multiple sclerosis; ischaemic brain injury; Parkinson's disease;
KW Alzheimer's disease; atherosclerosis; myocarditis; chromosome mapping;
KW triple helix formation; antisense gene therapy; forensic biology; ds;
KW gene.
XX
OS Homo sapiens.
XX
PN WO2002102994-A2.
XX
PD 27-DEC-2002.
XX
PF 19-MAR-2002; 2002WO-US008278.
XX
PR 21-MAR-2001; 2001US-0277340P.
PR 19-JUL-2001; 2001US-0306171P.
PR 13-NOV-2001; 2001US-0331287P.

XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM;
XX
DR WPI; 2003-167512/16.
XX
DR P-PSDB; ADA56986.
XX
PT New human secreted polypeptides and polynucleotides, useful for
PT diagnosing, treating or preventing e.g. immune disorders, inflammatory
PT conditions, respiratory disorders, cancers, CNS disorders, or
PT neurodegenerative disorders.
XX
PS Claim 21; SEQ ID NO 279; 1754pp; English.
XX
CC The invention relates to 592 new human secreted polypeptides useful for
CC diagnosing, treating or preventing e.g. immune disorders, inflammatory
CC conditions, respiratory disorders, cancers, CNS disorders, or
CC neurodegenerative disorders, or polypeptides comprising an amino acid
CC sequence at least 95% identical to the new sequences. The polypeptides,
CC antibodies or antibody fragments that bind to the polypeptides, nucleic
CC acids encoding the polypeptides, agonists or antagonists that binds to
CC the polypeptide, are useful in preparing diagnostic or pharmaceutical
CC compositions for diagnosing, treating or preventing an e.g. immune
CC disorders, inflammatory conditions (e.g. inflammatory bowel disease,
CC nephritis or Crohn's disease), respiratory disorders (e.g. asthma and
CC allergy), cancers (e.g. gastric, ovarian or lung cancer), CNS disorders
CC (e.g. multiple sclerosis or ischaemic brain injury), neurodegenerative
CC disorders (e.g. Parkinson's disease or Alzheimer's disease), and
CC cardiovascular disorders (e.g. atherosclerosis or myocarditis). The
CC polynucleotides are useful for chromosome identification, chromosome
CC mapping, for controlling gene expression through triple helix formation
CC or antisense DNA or RNA, in gene therapy, for identifying individuals
CC from minute biological samples, in forensic biology, and as hybridization
CC probes. The polypeptides are useful for as molecular weight markers on
CC sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE)
CC gels, to raise antibodies, for testing biological activities, and for
CC treating or preventing neural disorders, immune system disorders,
CC muscular, proliferative and/or cancerous diseases. This sequence corresponds
CC to a gene encoding one of the polypeptide of the invention. Note: The
CC sequence data for this patent did form part of the printed specification,
CC but was obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 1432 BP; 485 A; 258 C; 252 G; 437 T; 0 U; 0 Other;

Query Match 98.3%; Score 627; DB 7; Length 1432;
Best Local Similarity 99.8%; Pred. No. 2.7e-181;
Matches 638; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTTGGCTGCTCTTTTCTGTTGAGCTGCCATTCATGCTGAAGCTCTGCAACGAGT 60
DB 69 ATGTTGGCTGCTCTTTTCTGTTGAGCTGCCATTCATGCTGAAGCTCTGCAACGAGT 128
QY 61 GCAGAAATGCTTTTAAAGTGAAGCTTAGTATCAGACAGCTCTGGAGATTAAGCATAT 120
DB 129 GCAGAAATGCTTTTAAAGTGAAGCTTAGTATCAGACAGCTCTGGAGATTAAGCATAT 188
QY 121 GCCTGGATACCAATGAAGATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 180
DB 189 GCCTGGATACCAATGAAGATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 248
QY 181 GTTCCCAACAGAGAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCCAGAG 240
DB 249 GTTCCCAACAGAGAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCCAGAG 308
QY 241 GTATCATTCTGTTGTGTTACAGACCCCTTCAAAAAATCACACCCTTCTGCTGTGAG 300
DB 309 GTATCATTCTGTTGTGTTACAGACCCCTTCAAAAAATCACACCCTTCTGCTGTGAG 368
QY 301 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCACAATGCTTTCTTAAATGAC 360

| | | | |
|----|-----|--|-----|
| Db | 369 | GTGCATCAGCCCATAGAATGACAAAGAACCGGATCAACATGCGCTTTCTTAATGAC | 428 |
| Qy | 361 | CAAACTCTGGAATTTTAAAAATCCCTTCACACACTTGCAACCACCCATGACCCCATCTGTG | 420 |
| Db | 429 | CAAACTCTGGAATTTTAAAAATCCCTTCACACACTTGCAACCACCCATGACCCCATCTGTG | 488 |
| Qy | 421 | CCCATCTGGATTATTAATTTGTGTGATATTTTGCATCATCATAGTTGCAAATTGCACAT | 480 |
| Db | 489 | CCCATCTGGATTATTAATTTGTGTGATATTTTGCATCATCATAGTTGCAAATTGCACAT | 548 |
| Qy | 481 | CTGATTTTATCAGGGAATCTGGCAACGTAGAAAGAAACAAGAACCATCTGAAGTGGAT | 540 |
| Db | 549 | CTGATTTTATCAGGGAATCTGGCAACGTAGAAAGAAACAAGAACCATCTGAAGTGGAT | 608 |
| Qy | 541 | GACGCTGAAGATTAAGTGTGAAAAACATGATCAACAATTGAAAAATGGCATCCCTCTGATCC | 600 |
| Db | 609 | GACGCTGAAGATTAAGTGTGAAAAACATGATCAACAATTGAAAAATGGCATCCCTCTGATCC | 668 |
| Qy | 601 | CTGCACATGAAGGG-GGGCATATTTAATGATGCGCTTCATG | 638 |
| Db | 669 | CTGCACATGAAGGGGAGGSCATATTTAATGATGCGCTTCATG | 707 |

RESULT 209

ADA39900
ID ADA39900 standard; cDNA; 1432 BP.

AC ADA39900;

DT 20-NOV-2003 (first entry)

DB Human secreted protein encoding cDNA.

KW Human; secreted protein; cancer; hypereproliferative disorder;
 KW Rheumatoid arthritis; autoimmune disorder; haematopoietic disorder;
 KW anaemia; allergic reaction; asthma; cardiovascular disorder;
 KW wound healing; cytostatic; immunosuppressive; nocotropic; neuroprotective;
 KW antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory;
 KW vulnery; cardiant; gene therapy; ss.

OS Homo sapiens.

PN WO2002102993-A2.

PD 27-DEC-2002.

PF 19-MAR-2002; 2002WO-US008123.

PR 21-MAR-2001; 2001US-027734OP.

PR 13-NOV-2001; 2001US-0331287P.

PA (HUMA-) HUMAN GENOME SCI INC.

PI Rosen CA, Ruben SM;

DR WPI; 2003-175238/17.

PT New human secreted p

PT preventing or treating cancer or other hyperproliferative disorder,
PT asthma, allergies or AIDS.

PS Claim 9; SEQ ID NO 282; 3205pp; English.

CC The invention relates to novel genes ADA39629-2-ADA40565 and proteins
CC ADA40566-ADA41501 for human secreted proteins, useful for preventing,
CC treating or ameliorating medical conditions e.g. by protein or gene
CC therapy. The polypeptides, nucleic acid molecules, antibodies or their
CC fragments, and agonists or antagonists that bind to the polypeptide are
CC useful for preparing a diagnostic or pharmaceutical composition for
CC diagnosing or treating cancer or other hyperproliferative disorder. The
CC polypeptides and nucleic acid molecules are also useful for detecting,

CC preventing, diagnosing, prognosticating, treating or ameliorating cancer
CC or other hyperproliferative disorders including neoplasms, autoimmune
CC disorders (e.g. diabetes, rheumatoid arthritis, systemic lupus
CC erythematosus, multiple sclerosis, autoimmune thyroiditis or haemolytic
CC anaemia), haematopoietic or haematological disorders (e.g. anaemia,
CC thrombocytopenia), allergic reactions including asthma or eczema,
CC inflammatory disorders (e.g. ischaemia-reperfusion injury, inflammatory
CC bowel disease or Crohn's disease), neurodegenerative disorders (e.g.
CC Alzheimer's disease or Parkinson's disease), cardiovascular disorders
CC (e.g. atherosclerosis, myocarditis), infectious diseases (bacterial,
CC fungal or viral infections including HIV/AIDS), or wound healing and
CC disorders of epithelial cell proliferation. The nucleic acids are also
CC useful for chromosome identification, radiation hybrid mapping or long-
CC range restriction mapping, as molecular weight markers, or as
CC hybridization or diagnostic probes. The polypeptides and antibodies are
CC useful for providing immunological probes for differential identification
CC of the tissues immunohistochemistry assays. Note: The sequence data for
CC this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published/pct/sequences.

SQ Sequence 1432 BP; 485 A; 258 C; 252 G; 437 T; 0 U; 0 Other;

Query Match 98.3%; Score 627; DB 7; Length 1432;

Best Local Similarity 99.8%; Pred. No. 2.7e-181;
Matches 638; Conservative 0; Mismatches 0; Indels 1; Gaps 1

| | | | |
|----|-----|--|-----|
| QY | 1 | ANGTGTGGCTGCTCTTTTTCGTGTGACTGCCATTCACTGTAACCTCTGTCAACCAAGT | 60 |
| Db | 69 | ANGTTGTGGCTGCTCTTTTTCGTGTGACTGCCATTCACTGTAACCTCTGTCAACCAAGT | 128 |
| QY | 61 | GCAGAAAATGCTTTTAAAGTGAAGACTTAGTATCAGAACAGCTCTGGAGATAAAGCATAT | 120 |
| Db | 129 | GCAGAAAATGCTTTTAAAGTGAAGACTTAGTATCAGAACAGCTCTGGAGATAAAGCATAT | 188 |
| QY | 121 | GCCCTGGGATACCAATGAAGAATACCTCTTCAAAAGCATGTAGCTTTCTCCATGAGAAA | 180 |
| Db | 189 | GCCCTGGGATACCAATGAAGAATACCTCTTCAAAAGCATGTAGCTTTCTCCATGAGAAA | 248 |
| QY | 181 | GTTCCCAACAGAGAACACAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCAAGG | 240 |
| Db | 249 | GTTCCCAACAGAGAACACAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCAAGG | 308 |
| QY | 241 | GTAATCATTCGTGTTGTGTGTACAGACCCCTTCAAAAAATCACACCCTTCCTGCTTGAG | 300 |
| Db | 309 | GTAATCATTCGTGTTGTGTGTACAGACCCCTTCAAAAAATCACACCCTTCCTGCTTGAG | 368 |
| QY | 301 | GTCGAATCAGCCATAAGAATGAACAAGAACCCGATCAACATGCTTCTTCTAAATGAC | 360 |
| Db | 369 | GTCGAATCAGCCATAAGAATGAACAAGAACCCGATCAACATGCTTCTTCTAAATGAC | 428 |
| QY | 361 | CAAACTCTGAATTTTAAAAATCCCTCCACACTGCAACCAACCAATGCCATCTGTG | 420 |
| Db | 429 | CAAACTCTGAATTTTAAAAATCCCTCCACACTGCAACCAACCAATGCCATCTGTG | 488 |
| QY | 421 | CCCATCTGATTTATATTTGTGTGATATTTGCAATCATCATAGTTGCAATTGCACTA | 480 |
| Db | 489 | CCCATCTGATTTATATTTGTGTGATATTTGCAATCATCATAGTTGCAATTGCACTA | 548 |
| QY | 481 | CTGATTTTATCAGGGATCTGGCAACGTAGAAAGAAACAACCAATCTGAAGTGAT | 540 |
| Db | 549 | CTGATTTTATCAGGGATCTGGCAACGTAGAAAGAAACAACCAATCTGAAGTGAT | 608 |
| QY | 541 | GACGCTGAAGATAAGTGTGAAAAATGATCACAATTGAAAAATGGCATTCCTCTGATCCC | 600 |
| Db | 609 | GACGCTGAAGATAAGTGTGAAAAATGATCACAATTGAAAAATGGCATTCCTCTGATCCC | 668 |
| QY | 601 | CTGGAATGAAGG-GGGCATATTAATGATGCTTTCATG 638 | |
| Db | 669 | CTGGAATGAAGGAGGGCATATTAATGATGCTTTCATG 707 | |

RESULT 210

ADAl1489
ID ADAl1489 standard; DNA; 1432 BP.
XX
AC ADAl1489;
XX
DT 06-NOV-2003 (first entry)
XX
DB Human cDNA encoding a novel secreted protein, SEQ ID NO 17.
XX
KW cancer; inflammation; immune disorder; neurological disorder;
KW blood clotting disorder; food additive; food preservative;
KW storage capability; fat content; nutritional component; ds; gene; human.
XX
OS Homo sapiens.
XX
PN US2003055236-A1.
XX
PD 20-MAR-2003.
XX
PF 14-MAR-2002; 2002US-00097065.
XX
PR 18-DEC-1997; 97US-0068006P.
PR 18-DEC-1997; 97US-0068007P.
PR 18-DEC-1997; 97US-0068008P.
PR 18-DEC-1997; 97US-0068053P.
PR 18-DEC-1997; 97US-0068054P.
PR 18-DEC-1997; 97US-0068057P.
PR 18-DEC-1997; 97US-0068064P.
PR 18-DEC-1997; 97US-0070923P.
PR 19-DEC-1997; 97US-0068169P.
PR 19-DEC-1997; 97US-0068365P.
PR 19-DEC-1997; 97US-0068367P.
PR 19-DEC-1997; 97US-0068368P.
PR 19-DEC-1997; 97US-0068369P.
PR 17-DEC-1998; 98WO-US027059.
PR 17-JUN-1999; 99US-00334595.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Moore PA, Ruben SM, Carter KC, Shi Y, Rosen CA, Soppet DR;
PI Kyaw H, Wei Y, Florence KA, Duan DR, Florence C, Greene JM, Peng P;
PI Ferrie AM, Yu G, Janat F, Ni J;
XX
XX
DR WPI; 2003-567105/53.
DR P-PSDB; ADAl1613.
XX
PT New secreted HKABT24 nucleic acid molecules and polypeptides, useful for
PT preventing, treating, or ameliorating a medical condition, such as
PT cancer, inflammation, immune disorders, neurological and blood clotting
PT disorders.
XX
PS Claim 1; SEQ ID NO 17; 118bp; English.
XX
XX The invention relates to an isolated HKABT24 nucleic acid molecule. The
XX polypeptides, nucleic acids and antibodies are useful for diagnosing a
XX pathological condition or a susceptibility to a pathological condition,
XX for preventing, treating, or ameliorating a medical condition, such as
XX cancer, inflammation and other immune disorders, neurological and blood
XX clotting disorders. The nucleic acids are also useful for chromosome
XX identification, radiation hybrid mapping or long-range restriction
XX mapping. The polypeptides and antibodies are useful for providing
XX immunological probes for differential identification of the tissues
XX immunohistochemistry assays. The polypeptide, polynucleotide, agonist or
XX antagonist may also be used as a food additive or preservative to
XX increase or decrease storage capabilities, fat content or other
XX nutritional components. The present sequence represents cDNA encoding a
XX novel human secreted protein. Note: The sequence data for this patent did
XX not form part of the printed specification but was obtained in electronic
XX format directly from USPTO at
XX seqdata.uspto.gov.uk/sequence.html?DocID=20030055236.
SQ Sequence 1432 BP; 485 A; 258 C; 252 G; 437 T; 0 U; 0 Other;

Query Match 98.3%; Score 627; DB 8; Length 1432;
Best Local Similarity 99.8%; Pred. No. 2.7e-181;
Matches 638; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 1 ATGTTGCGCTGCTCTTTTCTGCTGACGCTCATTCATGCTGAAGTCAACAGGT 60
DB 69 ATGTTGCGCTGCTCTTTTCTGCTGACGCTCATTCATGCTGAAGTCAACAGGT 128
QY 61 GCAGAAAATGCTTTTAAAGTGAAGCTTAGATCAGAACAGCTCTGGAGATGAACATAT 120
DB 129 GCAGAAAATGCTTTTAAAGTGAAGCTTAGATCAGAACAGCTCTGGAGATGAACATAT 188
QY 121 GCCTGGATACCAATGAAGATACCTCTGCAAGCGATGTAGCTTTCTCCATGAGAAA 180
DB 189 GCCTGGATACCAATGAAGATACCTCTGCAAGCGATGTAGCTTTCTCCATGAGAAA 248
QY 181 GTTCCCAAGAGAGAGACAGAAATTTCCATGTCTTCTTCAATGTAAACAGAG 240
DB 249 GTTCCCAAGAGAGAGACAGAAATTTCCATGTCTTCTTCAATGTAAACAGAG 308
QY 241 GTATCATTTCTGTTTGTGTTACAGACCTTCAAAAATGACACCTCTGCTGTAG 300
DB 309 GTATCATTTCTGTTTGTGTTACAGACCTTCAAAAATGACACCTCTGCTGTAG 368
QY 301 GTGCAATCAGCCATAGATGAAGACAGAACCGGATCAACATGCTCTTTCTAAATGAC 360
DB 369 GTGCAATCAGCCATAGATGAAGACAGAACCGGATCAACATGCTCTTTCTAAATGAC 428
QY 361 CAACTCTGGAATTTTAAATATCCCTTCCACACTTGACACCCATGACCATCTGTG 420
DB 429 CAACTCTGGAATTTTAAATATCCCTTCCACACTTGACACCCATGACCATCTGTG 488
QY 421 CCCATCTGATTTATTAATTTGCTGATATTTTGCATCATCATAGTTGCATTCACATA 480
DB 489 CCCATCTGATTTATTAATTTGCTGATATTTTGCATCATCATAGTTGCATTCACATA 548
QY 481 CTGATTTATTCAGGATCTGCAACGTTAGAAAGAAAGAACCAACCATCTGAAGTGAT 540
DB 549 CTGATTTATTCAGGATCTGCAACGTTAGAAAGAAAGAACCAACCATCTGAAGTGAT 608
QY 541 GACGCTGAAGATTAAGTGTGAATAACATGATCACAATGAAATGGCATCCCTCTGATCCC 600
DB 609 GACGCTGAAGATTAAGTGTGAATAACATGATCACAATGAAATGGCATCCCTCTGATCCC 668
QY 601 CTGACATGAAGGG-GGGCATTTAATGATGCTTCATG 638
DB 669 CTGACATGAAGGGAGGGGCAATTAATGATGCTTCATG 707
RESULT 211
ADD37613
ID ADD37613 standard; cDNA; 1432 BP.
XX
XX
AC ADD37613;
XX
DT 15-JAN-2004 (first entry)
XX
DB Human secreted protein encoding sequence #95.
XX
KW human secreted protein; Antiallergic; Antiinflammatory; Antibacterial;
KW Anti-HIV; Cytostatic; Immunosuppressive; Hemostatic; ss.
XX
OS Homo sapiens.
XX
PN WO200290526-A2.
XX
PD 14-NOV-2002.
XX
PF 19-MAR-2002; 2002WO-US008279.
XX
PR 21-MAR-2001; 2001US-0277340P.
PR 19-JUL-2001; 2001US-0306171P.
PR 13-NOV-2001; 2001US-0331287P.

XX (HUMA-) HUMAN GENOME SCI INC.
PA Rosen CA, Ruben SM;
XX WPI; 2003-140218/13.
DR
XX
PT New human secreted proteins and nucleic acid molecules, useful for
PT preparing a diagnostic or pharmaceutical composition for diagnosing or
PT treating allergic or asthmatic disorders, or related immediate
PT hypersensitivity disorders.

PS Claim 7; SEQ ID NO 95; 1323bp; English.

XX The present invention relates to an isolated polypeptide or human
CC secreted protein. The polypeptides, nucleic acid molecules, antibodies or
CC their fragments, and agonists or antagonists that bind are useful for
CC preparing a diagnostic or pharmaceutical composition for diagnosing or
CC treating allergic or asthmatic disorders. The polypeptide is also useful
CC for identifying a binding partner by contacting the polypeptide with a
CC binding partner, and determining whether the binding partner increases or
CC decreases the activity of the polypeptide. The polypeptides and nucleic
CC acid molecules are also useful for detecting, preventing, diagnosing,
CC prognosticating, treating or ameliorating inflammatory disorders
CC neoplastic diseases, wound healing and disorders of epithelial cell
CC proliferation, immune disorders, cardiovascular disorders, blood-related
CC disorders, infectious diseases, endocrine disorders, or gastrointestinal
CC disorders. The nucleic acids are also useful for chromosome
CC identification, radiation hybrid mapping or long-range restriction
CC mapping, as molecular weight markers, or as hybridization or diagnostic
CC probes. The polypeptides and antibodies are useful for providing
CC immunological probes for differential identification of the tissues
CC immunohistochemistry assays. The present sequence represents a human
CC secreted protein encoding sequence.

XX Sequence 1432 BP; 485 A; 258 C; 252 G; 437 T; 0 U; 0 Other;

Query Match 98.3%; Score 627; DB 9; Length 1432;
Best Local Similarity 99.8%; Pred. No. 2.7e-181;
Matches 638; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTGTGGCTCTTTTCTGGTGAAGTCCATTCATGCTGAATCTGTCAACAGGT 60
DB 69 ATGTGTGGCTCTTTTCTGGTGAAGTCCATTCATGCTGAATCTGTCAACAGGT 128
QY 61 GCAGAAAATGCTTTAAAGTGAAGTCTAGTATCAAGACGCTGGAGATAAAGCATAT 120
DB 129 GCAGAAAATGCTTTAAAGTGAAGTCTAGTATCAAGACGCTGGAGATAAAGCATAT 188
QY 121 GCCTGGATACCAATGAAGATACCTCTCAAAAGCATGTAGCTTCTCCATGAGAAA 180
DB 189 GCCTGGATACCAATGAAGATACCTCTCAAAAGCATGTAGCTTCTCCATGAGAAA 248
QY 181 GTTCCCAACAGAGACCAAGAAATTCCTACTTGTCAATGTAACCAAGAG 240
DB 249 GTTCCCAACAGAGACCAAGAAATTCCTACTTGTCAATGTAACCAAGAG 308
QY 241 GTATCATTCGTTTGTGTATCAGACCCCTCAAAAATCAACCCCTCTGCTGTGAG 300
DB 309 GTATCATTCGTTTGTGTATCAGACCCCTCAAAAATCAACCCCTCTGCTGTGAG 368
QY 301 GTGCAATCAGCCATAAGATGAACAAGACCGGATCAACAATGCTTCTTAATGAC 360
DB 369 GTGCAATCAGCCATAAGATGAACAAGACCGGATCAACAATGCTTCTTAATGAC 428
QY 361 CAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGACCAACCATGAGCCATCTGTG 420
DB 429 CAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGACCAACCATGAGCCATCTGTG 488
QY 421 CCCATCTGATATATATTTGGTGTGATATTTGCATCATCATAGTGAATGCACTA 480
DB 489 CCCATCTGATATATATTTGGTGTGATATTTGCATCATCATAGTGAATGCACTA 548

QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACCAATCTGAAGTGAT 540
DB 549 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACCAATCTGAAGTGAT 608
QY 541 GACGCTGAAGATAGTGTGAAAACATGATCACAATGAAAATGGATCCCTTGATCCC 600
DB 609 GACGCTGAAGATAGTGTGAAAACATGATCACAATGAAAATGGATCCCTTGATCCC 668
QY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCATG 638
DB 669 CTGACATGAAGGAGGGCATATTAATGATGCTTCATG 707

RESULT 212

AAZ65261
ID AAZ65261 standard; DNA; 1447 BP.
XX
AC AAZ65261;
XX
DT 23-MAR-2000 (first entry)
XX
DB Human secreted protein gene 12.
XX
KW Human; secreted protein; cancer; tumour; developmental abnormality;
KW foetal deficiency; blood disorder; immune system disorder; inflammation;
KW autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
KW schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder;
KW atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;
KW digestive disorder; endocrine disorder; infection; AIDS; leukaemia;
KW therapy; ds.
XX
OS Homo sapiens.
XX
PN WO958660-A1.
XX
PD 18-NOV-1999.
XX
PF 06-MAY-1999; 99WO-US009847.
XX
PR 12-MAY-1998; 98US-0085093P.
PR 12-MAY-1998; 98US-0085094P.
PR 12-MAY-1998; 98US-0085105P.
PR 12-MAY-1998; 98US-0085180P.
PR 18-MAY-1998; 98US-0085906P.
PR 18-MAY-1998; 98US-0085920P.
PR 18-MAY-1998; 98US-0085921P.
PR 18-MAY-1998; 98US-0085922P.
PR 18-MAY-1998; 98US-0085923P.
PR 18-MAY-1998; 98US-0085924P.
PR 18-MAY-1998; 98US-0085925P.
PR 18-MAY-1998; 98US-0085927P.
PR 18-MAY-1998; 98US-0085928P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Florence R, Ni J, Rosen CA, Carter KC, Moore PA;
PI Olsen HS, Shi Y, Young PB, Wei F, Brewer LA, Soppet DR, Lafleur DW;
PI Bndress GA, Bbner R;
XX
DR WPI; 2000-062296/05.
DR P-PSDB; AAY76135.
XX
PT New isolated human genes and the secreted polypeptides they encode,
PT useful for diagnosis and treatment of e.g. cancers, neurological
PT disorders, immune diseases, inflammation or blood disorders.
XX
PS Claim 1; Page 303; 475bp; English.
XX
CC AAZ65250 to AAZ65350 represent 97 isolated human secreted protein genes.
CC AAY76124 to AAY76223 represent the secreted proteins encoded by the 97
CC human genes. The genes and their corresponding secreted polypeptides are
CC useful for preventing, treating or ameliorating medical conditions, e.g.
CC by protein or gene therapy. Also pathological conditions can be diagnosed

CC by determining the amount of the new polypeptides in a sample or by
 CC determining the presence of mutations in the new genes. Specific uses are
 CC described for each of the 97 genes, based on which tissues they are most
 CC highly expressed in, and include developing products for the diagnosis or
 CC treatment of cancer, tumours, developmental abnormalities and foetal
 CC deficiencies, blood disorders, diseases of the immune system, autoimmune
 CC diseases, inflammation, allergies, Alzheimer's and cognitive disorders,
 CC schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders,
 CC atherosclerosis, diabetes, cardiovascular disorders, kidney disorders,
 CC digestive/endocrine disorders, infections and AIDS. The polypeptides are
 CC also useful for identifying their binding partners. The sequences shown
 CC in AAY76224 to AAY76424 represent fragments of the secreted proteins

XX SQ Sequence 1447 BP; 488 A; 262 C; 256 G; 439 T; 0 U; 2 Other;

Query Match 98.2%; Score 626.6; DB 3; Length 1447;
 Best Local Similarity 99.7%; Pred. No. 3.6e-181;
 Matches 637; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

OY 1 ATGTTGGCTGCTCTTTTCTGGTGAAGTCCATTCATGCTGAAGTCTGCAACCAAGT 60
 DB 77 ATGTTGGCTGCTCTTTTCTGGTGAAGTCCATTCATGCTGAAGTCTGCAACCAAGT 136
 OY 61 GCAGAAATGCTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAGCATAT 120
 DB 137 GCAGAAATGCTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAGCATAT 196
 OY 121 GCTTGGATACCAATGAAGATACCTCTCAAGCGATGCTTCTCCATGAGAAA 180
 DB 197 GCTTGGATACCAATGAAGATACCTCTCAAGCGATGCTTCTCCATGAGAAA 256
 OY 181 GTTCCCAAGAGAGCAAGCAAGAAATTTCCATGCTCTTGAATGTAACCAAGAG 240
 DB 257 GTTCCCAAGAGAGCAAGCAAGAAATTTCCATGCTCTTGAATGTAACCAAGAG 316
 OY 241 GTATCATTTCTGTTGTGTTACAGACCTTCAAAAATCAGACCTTCTGCTGTAG 300
 DB 317 GTATCATTTCTGTTGTGTTACAGACCTTCAAAAATCAGACCTTCTGCTGTAG 376
 OY 301 GTGCAATCAGCCATAGAATGAACAGAACCGGATCAACATGCTTCTTAAATGAC 360
 DB 377 GTGCAATCAGCCATAGAATGAACAGAACCGGATCAACATGCTTCTTAAATGAC 436
 OY 361 CAAACTCTGAATTTTAAATCCCTTCCACACTTGACCAACCCATGAGCCATCTG 420
 DB 437 CAAACTCTGAATTTTAAATCCCTTCCACACTTGACCAACCCATGAGCCATCTG 496
 OY 421 CCCATCTGATTTATATTTTGTGTGATATTTTGCATCATCATAGTTGCAATTGCACTA 480
 DB 497 CCCATCTGATTTATATTTTGTGTGATATTTTGCATCATCATAGTTGCAATTGCACTA 556
 OY 481 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAAGAAACCAACCTGGAAGTGA 540
 DB 557 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAAGAAACCAACCTGGAAGTGA 616
 OY 541 GACGCTGAAGATAAGTGTGAAAACATGATCACAATTTGAAATGGCATCCCTGATCC 600
 DB 617 GACGCTGAAGATAAGTGTGAAAACATGATCACAATTTGAAATGGCATCCCTGATCC 676
 OY 601 CTGACATGAAGGG-GGGCATATTATGATGCTTCATG 638
 DB 677 CTGACATGAAGGGGGGCATATTATGATGCTTCATG 715

RESULT 213

ADBI1650
 ID ADEI1650 standard; cDNA; 1447 BP.

XX AC ADEI1650;

XX DT 29-JAN-2004 (first entry)

XX DB Human secreted polypeptide cDNA #12.

XX Secreted protein; cancer; liver disorder; hepatitis; neural disorder;
 KW Alzheimer's disease; human; ss; gene.

XX Synthetic.
 OS Homo sapiens.

XX US2003100051-A1.

XX 29-MAY-2003.

XX 10-SEP-2001; 2001US-00948783.

XX 12-MAY-1998; 98US-0085093P.

XX 12-MAY-1998; 98US-0085094P.

XX 12-MAY-1998; 98US-0085105P.

XX 12-MAY-1998; 98US-0085180P.

XX 18-MAY-1998; 98US-0085906P.

XX 18-MAY-1998; 98US-0085920P.

XX 18-MAY-1998; 98US-0085921P.

XX 18-MAY-1998; 98US-0085922P.

XX 18-MAY-1998; 98US-0085923P.

XX 18-MAY-1998; 98US-0085924P.

XX 18-MAY-1998; 98US-0085925P.

XX 18-MAY-1998; 98US-0085927P.

XX 18-MAY-1998; 98US-0085928P.

XX 06-MAY-1999; 99WO-US009847.

XX 10-NOV-1999; 99US-00437658.

XX 11-SEP-2000; 2000US-0231846P.

XX 28-JUN-2001; 2001US-00892877.

XX (RUBE/) RUBEN S M.

XX (FLOR/) FLORENCE K A.

XX (NIJ/) NI J.

XX (ROSE/) ROSEN C A.

XX (CART/) CARTER K C.

XX (MOOR/) MOORE P A.

XX (OLSE/) OLSEN H S.

XX (SHI/) SHI Y.

XX (YOUN/) YOUNG P B.

XX (WEI/) WEI Y.

XX (BREW/) BREWER L A.

XX (SOPP/) SOPPET D R.

XX (LAF/) LAFLEUR D W.

XX (ENDR/) ENDRESS G A.

XX (BNER/) BNER R.

XX (BIRS/) BIRSE C E.

XX Ruben SM, Florence KA, Ni J, Rosen CA, Carter KC, Moore PA;
 PI Olsen HS, Shi Y, Young PB, Wei Y, Brewer LA, Soppet DR, Lafleur DW;
 PI Andres GA, Ebner R, Birse CB;

XX WPI; 2003-801210/75.

XX New nucleic acid molecule, useful for preparing a medicament for
 PT preventing, treating or ameliorating a medical condition e.g. cancer,
 PT liver disorders or neural disorders.

XX Claim 1; SEQ ID NO 22; 453pp; English.

XX The invention relates to human secreted polypeptides and the
 CC polynucleotides encoding them. The sequences are useful for preparing
 CC medicaments for preventing, treating or ameliorating medical conditions
 CC e.g., cancer, liver disorders such as hepatitis or neural disorders such
 CC as Alzheimer's disease. This sequence represents cDNA encoding a human
 CC secreted polypeptide of the invention.

XX SQ Sequence 1447 BP; 488 A; 262 C; 256 G; 439 T; 0 U; 2 Other;

Query Match 98.2%; Score 626.6; DB 9; Length 1447;
 Best Local Similarity 99.7%; Pred. No. 3.6e-181;
 Matches 637; Conservative 1; Mismatches 0; Indels 1; Gaps 1;


```
Qy 541 GACGCTGAAGATAAGTGTGTAACATGATCACAATTGAAATGGCATCCCTCTGATCCC 600
Db 564 GACGCTGAAGATAAGTGTGTAACATGATCACAATTGAAATGGCATCCCTCTGATCCC 623
Qy 601 CTGACATGAAGGG-GGGCATATTAATGATGCTTCATG 638
Db 624 CTGACATGAAGGGGAGGCATATTAATGATGCTTCATG 662

RESULT 215
AAV40540
ID AAV40540 standard; cDNA; 1401 BP.
XX
AC AAV40540;
XX
DT 09-NOV-1998 (first entry)
XX
DE Homo sapiens secreted protein clone AM42_3.
XX
KM Clone; secreted protein; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 71..739
FT /*tag= a
FT /note= "secreted protein"
XX
XX WO9832853-A2.
XX
PD 30-JUL-1998.
XX
XX 23-JAN-1998; 98MO-US001396.
XX
PR 24-JAN-1997; 97US-00788789.
XX
XX (GENE ) GENETICS INST INC.
XX
PI Jacobs K, McCoy JM, Lavallic ER, Racie LA, Merberg D, Treacy M;
PI Spaulding V, Agostino MJ;
XX
DR WPI; 1998-427949/36.
DR P-PSDB; AAW29670.
XX
XX New isolated polynucleotide(s) and secreted proteins - isolated from
PT human foetal kidney, adult brain, adult salivary gland, foetal brain and
PT adult testes cDNA libraries.
XX
PS Claim 16; Page 64-65; 109pp; English.
XX
XX The sequence is that of encoding a secreted protein. Such a protein can
CC have biological activities, e.g. nutritional activity, cytokine and cell
CC proliferation/differentiation activity, immune stimulating or suppressing
CC activity, haematopoiesis regulating activity, tissue growth activity,
CC activity/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, cadherin/tumour invasion suppressor activity, tumour inhibition
CC activity, and other activities
XX
SQ Sequence 1401 BP; 458 A; 258 C; 251 G; 434 T; 0 U; 0 Other;

Query Match 98.0%; Score 625.4; DB 2; Length 1401;
Best Local Similarity 99.7%; Pred. No. 8.3e-181;
Matches 637; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
```

```
Qy 121 GCCTGGATACCAATGAAGATACTCTTCAAGGATGTAAGCTTTCTCCATGAGAAA 180
Db 191 GCCTGGATACCAATGAAGATACTCTTCAAGGATGTAAGCTTTCTCCATGAGAAA 250
Qy 181 GTTCCCAACAGAGAACCAAGAAATTTCCCATGTCTTACTTTGCAATGTAACCCAGAG 240
Db 251 GTTCCCAACAGAGAACCAAGAAATTTCCCATGTCTTACTTTGCAATGTAACCCAGAG 310
Qy 241 GTATCATTTCTGTTTGTGTACAGACCTTCAAAAATCAGACCTTCTGCTGTAG 300
Db 311 GTATCATTTCTGTTTGTGTACAGACCTTCAAAAATCAGACCTTCTGCTGTAG 370
Qy 301 GTGCAATCAGCCATAAGAAATGAACAGAACCGGATCAACATGCTTCTTCTAATGAC 360
Db 371 GTGCAATCAGCCATAAGAAATGAACAGAACCGGATCAACATGCTTCTTCTAATGAC 430
Qy 361 CAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGACACCACCATGAGCCATCTGTG 420
Db 431 CAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGACACCACCATGAGCCATCTGTG 490
Qy 421 CCCATCTGATTAATTAATTTGGTGTATATTGTCATCATATGTTGCAATTGCACTA 480
Db 491 CCCATCTGATTAATTAATTTGGTGTATATTGTCATCATATGTTGCAATTGCACTA 550
Qy 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAAGTGAT 540
Db 551 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAAGTGAT 610
Qy 541 GACGCTGAAGATAAGTGTGAAACATGATCACAATTGAAATGGCATCCCTCTGATCCC 600
Db 611 GACGCTGAAGATAAGTGTGAAACATGATCACAATTGAAATGGCATCCCTCTGATCCC 670
Qy 601 CTGACATGAAGGG-GGGCATATTAATGATGCTTCATG 638
Db 671 CTGACATGAAGGGGAGGCATATTAATGATGCTTCATG 709

RESULT 216
AAV19983
ID AAV19983 standard; cDNA; 848 BP.
XX
XX AAV19983;
XX
AC AAV19983;
XX
DT 16-JUN-1999 (first entry)
XX
DB Human secreted protein 5' EST SEQ ID NO:27.
XX
XX Human; secreted protein; EST; expressed sequence tag; diagnosis;
XX forensic; gene therapy; chromosome mapping; signal peptide;
XX upstream regulatory sequence; cytokine activity; cell proliferation;
XX differentiation; haematopoiesis regulation; tissue growth regulation;
XX reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
XX thrombolytic; anti-inflammatory; tumour inhibition; ds.
XX
XX Homo sapiens.
XX
XX WO9906439-A2.
XX
XX 11-FEB-1999.
XX
XX 31-JUL-1998; 98MO-IB001233.
XX
XX 01-AUG-1997; 97US-00904468.
XX
XX (GENE ) GENSET.
XX
XX Dumas Milne Edwards J, Duclert A, Lacroix B;
XX
XX WPI; 1999-153700/13.
XX
XX P-PSDB; AAY04156.
XX
XX New nucleic acids encoding human secreted proteins - obtained from cDNA
PT
```

PT Libraries derived from liver, lung, large intestine, colon, thyroid and
PT pancreas tissue.

XX Example 28; Page 157-158; 398pp; English.

CC AAX40251 to AAX40397 represent 5' expressed sequence tags (ESTs) for
CC human secreted proteins, and encode the proteins given in AAY11533 to
CC AAY11679, respectively. The proteins given represent the signal peptide
CC and an N-terminal fragment of a secreted protein. The nucleic acid
CC sequences can be used for producing secreted human gene products. They
CC can also be used to develop products for diagnosis and therapy. The
CC proteins obtained may have cytokine activity, cell
CC proliferation/differentiation activity, haematopoiesis regulating
CC activity, tissue growth regulating activity, reproductive hormone
CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, tumour inhibition activity or other activities. The products
CC can be used in forensic, gene therapy and chromosome mapping procedures.
CC The sequences can also be used for obtaining corresponding promoter
CC sequences. The nucleic acids encoding the signal peptide can be used for
CC directing extracellular secretion of a polypeptide or the insertion of a
CC polypeptide into a membrane, or importing a polypeptide into a cell. The
CC present sequence represents a 5' EST from an example of the present
CC invention

XX Sequence 848 BP; 257 A; 180 C; 161 G; 244 T; 0 U; 6 Other;

Query Match 98.0%; Score 625; DB 2; Length 848;
Best Local Similarity 99.2%; Pred. No. 8.7e-181;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTTGGTCTCTTTTCTGCTGAGTCCATTCATGCTGAATCTGTGCAACGAGT 60
DB |||||||
QY 32 ATGTTGGTCTCTTTTCTGCTGAGTCCATTCATGCTGAATCTGTGCAACGAGT 91
DB |||||||
QY 61 GCAGAAAATGCTTTTAAAGTGAAGTCTAGTATGAGACAGCTGTGGAGATTAAGCATAT 120
DB |||||||
QY 92 GCAGAAAATGCTTTTAAAGTGAAGTCTAGTATGAGACAGCTGTGGAGATTAAGCATAT 151
DB |||||||
QY 121 GCCTGGATACCAATGAAGTACCTCTCAAGCGATGTAGCTTTCTCCATGAGAAA 180
DB |||||||
QY 152 GCCTGGATACCAATGAAGTACCTCTCAAGCGATGTAGCTTTCTCCATGAGAAA 211
DB |||||||
QY 181 GTTCCCAAGAGAGCAAGCAAAATTTCCATGTCTACTTTCATATGTAACCCAGAGG 240
DB |||||||
QY 212 GTTCCCAAGAGAGCAAGCAAAATTTCCATGTCTACTTTCATATGTAACCCAGAGG 271
DB |||||||
QY 241 GTATCATCTGTTTGTGTTACAGACCTTCAAAAATCACACCTTCTGCTGTGAG 300
DB |||||||
QY 272 GTATCATCTGTTTGTGTTACAGACCTTCAAAAATCACACCTTCTGCTGTGAG 331
DB |||||||
QY 301 GTGCAATCAGCCATAAGATGAACAAGACCGGATCAACAATGCTTTCTTAATGAC 360
DB |||||||
QY 332 GTGCAATCAGCCATAAGATGAACAAGACCGGATCAACAATGCTTTCTTAATGAC 391
DB |||||||
QY 361 CAACTCTGGAATTTTAAAAATCCCTTCCACTTGACCAACCATGAGCCCATCTGTG 420
DB |||||||
QY 392 CAACTCTGGAATTTTAAAAATCCCTTCCACTTGACCAACCATGAGCCCATCTGTG 451
DB |||||||
QY 421 CCCATCTGATATTATATTGTTGATATTTTGCATCATCATAGTGAATGCACTA 480
DB |||||||
QY 452 CCCATCTGATATTATATTGTTGATATTTTGCATCATCATAGTGAATGCACTA 511
DB |||||||
QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAAGAACAAACCATCTGAAGTGAT 540
DB |||||||
QY 512 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAAGAACAAACCATCTGAAGTGAT 571
DB |||||||
QY 541 GACGCTGAAGATAAGTGTGAACAATGATCACAATGGAATGCAATCCCTCTGATCCC 600
DB |||||||
QY 572 GACGCTGAAGATAAGTGTGAACAATGATCACAATGGAATGCAATCCCTCTGATCCC 631
DB |||||||
QY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCATG 638
DB |||||||

DB 632 CTGACATGAAGGAGGCGATATTATGATGCTTCATG 670

RESULT 217
AAX39430
ID AAX39430 standard; DNA: 848 BP.

AC AAX39430;

DT 21-JUN-1999 (first entry)

DE Human secreted protein 5' EST SEQ ID NO: 27.

KW Human; secreted protein; EST; expressed sequence tag; diagnosis;
KW forensic; gene therapy; chromosome mapping; signal peptide;
KW upstream regulatory sequence; cytokine activity; cell proliferation;
KW differentiation; haematopoiesis regulation; tissue growth regulation;
KW reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
KW thrombolytic; anti-inflammatory; tumour inhibition; ds.

XX Homo sapiens.

PN W09906551-A2.

PD 11-FEB-1999.

PF 31-JUL-1998; 98WO-IB001235.

PR 01-AUG-1997; 97US-00905133.

PA (GBST) GENSET.

PI Dumas Milne Edwards J, Duclert A, Lacroix B;

DR MPI; 1999-153781/13.

DR P-PSDB; AAM93620, AAY11373.

PT New nucleic acids encoding human secreted - proteins obtained from cDNA
PT libraries prepared from substantia nigra, cerebellum, adrenals and fetal
PT brain tissue.

PS Example 28; Page 157-158; 434pp; English.

CC AAX39440 to AAX39597 represent 5' expressed sequence tags (ESTs) for
CC human secreted proteins, and encode the proteins given in AAY11374 to
CC AAY11531, respectively. The proteins given represent the signal peptide
CC and an N-terminal fragment of a secreted protein. The nucleic acid
CC sequences can be used for producing secreted human gene products. They
CC can also be used to develop products for diagnosis and therapy. The
CC proteins obtained may have cytokine activity, cell
CC proliferation/differentiation activity, haematopoiesis regulating
CC activity, tissue growth regulating activity, reproductive hormone
CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, tumour inhibition activity or other activities. The products
CC can be used in forensic, gene therapy and chromosome mapping procedures.
CC The sequences can also be used for obtaining corresponding promoter
CC sequences. The nucleic acids encoding the signal peptide can be used for
CC directing extracellular secretion of a polypeptide or the insertion of a
CC polypeptide into a membrane, or importing a polypeptide into a cell. This
CC sequence encodes the human 5' EST secreted proteins represented in
CC AAM93620 and AAY11373

XX Sequence 848 BP; 257 A; 180 C; 161 G; 244 T; 0 U; 6 Other;

Query Match 98.0%; Score 625; DB 2; Length 848;
Best Local Similarity 99.2%; Pred. No. 8.7e-181;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTTGGTCTCTTTTCTGCTGAGTCCATTCATGCTGAATCTGTGCAACGAGT 60
DB |||||||
QY 32 ATGTTGGTCTCTTTTCTGCTGAGTCCATTCATGCTGAATCTGTGCAACGAGT 91
DB |||||||

QY 61 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAAGCATAT 120
DB 92 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAAGCATAT 151
QY 121 GCCTGGATACCAATGAGAAATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAAA 180
DB 152 GCCTGGATACCAATGAGAAATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAAA 211
QY 181 GTTCCCAACAGAGAAGCAAGAAATTTCCAGTGTCTTACTTTGCAATGTAAACAGAGG 240
DB 212 GTTCCCAACAGAGAAGCAAGAAATTTCCAGTGTCTTACTTTGCAATGTAAACAGAGG 271
QY 241 GTATCATTCGTGTTTGTGTACAGACCCCTTCAAAAATCAACCCCTTCTGCTGTGAG 300
DB 272 GTATCATTCGTGTTTGTGTACAGACCCCTTCAAAAATCAACCCCTTCTGCTGTGAG 331
QY 301 GTGCAATCAGCCATTAAGATGAACAAGAACCGGATCAACAATGCTTTCTTAATGAC 360
DB 332 GTGCAATCAGCCATTAAGATGAACAAGAACCGGATCAACAATGCTTTCTTAATGAC 391
QY 361 CAAACTCTGGAATTTTAAATTCCTTCCACACTTGCAACCAACCAATCTGTG 420
DB 392 CAAACTCTGGAATTTTAAATTCCTTCCACACTTGCAACCAACCAATCTGTG 451
QY 421 CCCATCTGATTAATTAATTTGGTGTGATATTTTGCATCATCATAGTTGCAATTCACATA 480
DB 452 CCCATCTGATTAATTAATTTGGTGTGATATTTTGCATCATCATAGTTGCAATTCACATA 511
QY 481 CTGATTTTATCAGGAGATCTGGCAACGTAGAAGAAAGAACCAATCTGAATGGAT 540
DB 512 CTGATTTTATCAGGAGATCTGGCAACGTADARAAGAACCAATCTGAATGGAT 571
QY 541 GACGCTGAAGATTAAGTGTGAAGAACATGATCACAATGAAATGGATCCCTCTGATCCC 600
DB 572 GACGCTGAARATTAATGTGAAGAACATGATCACAATGAAATGGATCCCTCTGATCCC 631
QY 601 CTGACATGAAGGG-GGGCATATTAATGATGCTTCATG 638
DB 632 CTGACATGAAGGGGAGGCATATTAATGATGCTTCATG 670

RESULT 218

AAK41369
ID AAX41369 standard; cDNA; 848 BP.

AC AAX41369;

DT 22-JUN-1999 (first entry)

DE Extended cDNA obtained from 5' EST, SEQ ID NO: 27 from WO 9906553.

Human; secreted protein; EST; expressed sequence tag; diagnosis;
forensic; gene therapy; chromosome mapping; signal peptide;
upstream regulatory sequence; cytokine activity; cell proliferation;
differentiation; haematopoiesis regulation; tissue growth regulation;
reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
thrombolytic; antiinflammatory; tumour inhibition; antitumour; ds.

OS Homo sapiens.

PN WO9906553-A2.

PD 11-FEB-1999.

PF 31-JUL-1998; 98WO-1B001237.

PR 01-AUG-1997; 97US-00905051.

PA (GEST) GENSET.

PI Dumas Milne Edwards J, Duclert A, Lacroix B;

DR WPI; 1999-153783/13.

DR P-PSDB; AAY12520.
XX New nucleic acids encoding human secreted proteins - obtained from cDNA
PT libraries derived from umbilical cord, lymph ganglia, lymphocytes and
PT placental tissue.
XX Example 28; Page 156-157; 411pp; English.

XX The patent relates to sequences of 5' ESTs derived from mRNAs encoding
CC secreted proteins. The nucleic acid sequences can be used for producing
CC secreted human gene products. They can also be used to develop products
CC for diagnosis and therapy. The proteins obtained may have cytokine
CC activity, cell proliferation/differentiation activity, haematopoiesis
CC regulating activity, tissue growth regulation activity, reproductive
CC hormone regulating activity, chemotactic/ chemokinetic activity,
CC haemostatic and thrombolytic activity, receptor/ ligand activity,
CC antiinflammatory activity, tumour inhibition activity or other
CC activities. The products can be used in forensic, gene therapy and
CC chromosome mapping procedures. The sequences can also be used for
CC obtaining corresponding promoter sequences. The nucleic acids encoding
CC the signal peptide can be used for directing extracellular secretion of a
CC polypeptide or the insertion of a polypeptide into a membrane, or
CC importing a polypeptide into a cell

SO Sequence 848 BP; 257 A; 180 C; 161 G; 244 T; 0 U; 6 Other;

Query Match 98.0%; Score 625; DB 2; Length 848;
Best Local Similarity 99.2%; Pred. No. 8.7e-181;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTTGTGCTGCTCTTTTCTGCTGAGTCCATTCATGCTGAAGTCTGTCAACAGGT 60
DB 32 ATGTTGTGCTGCTCTTTTCTGCTGAGTCCATTCATGCTGAAGTCTGTCAACAGGT 91
QY 61 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAAGCATAT 120
DB 92 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAAGCATAT 151
QY 121 GCCTGGATACCAATGAGAAATACCTTCAAGCGATGTAGCTTTCTCCATGAGAAAA 180
DB 152 GCCTGGATACCAATGAGAAATACCTTCAAGCGATGTAGCTTTCTCCATGAGAAAA 211
QY 181 GTTCCCAACAGAGAAGCAAGAAATTTCCAGTGTCTTACTTTGCAATGTAAACAGAGG 240
DB 212 GTTCCCAACAGAGAAGCAAGAAATTTCCAGTGTCTTACTTTGCAATGTAAACAGAGG 271
QY 241 GTATCATTCGTGTTTGTGTACAGACCCCTTCAAAAATCAACCCCTTCTGCTGTGAG 300
DB 272 GTATCATTCGTGTTTGTGTACAGACCCCTTCAAAAATCAACCCCTTCTGCTGTGAG 331
QY 301 GTGCAATCAGCCATTAAGATGAACAAGAACCGGATCAACAATGCTTTCTTAATGAC 360
DB 332 GTGCAATCAGCCATTAAGATGAACAAGAACCGGATCAACAATGCTTTCTTAATGAC 391
QY 361 CAAACTCTGGAATTTTAAATTCCTTCCACACTTGCAACCAACCAATCTGTG 420
DB 392 CAAACTCTGGAATTTTAAATTCCTTCCACACTTGCAACCAACCAATCTGTG 451
QY 421 CCCATCTGATTAATTAATTTGGTGTGATATTTTGCATCATCATAGTTGCAATTCACATA 480
DB 452 CCCATCTGATTAATTAATTTGGTGTGATATTTTGCATCATCATAGTTGCAATTCACATA 511
QY 481 CTGATTTTATCAGGAGATCTGGCAACGTAGAAGAAAGAACCAATCTGAATGGAT 540
DB 512 CTGATTTTATCAGGAGATCTGGCAACGTADARAAGAACCAATCTGAATGGAT 571
QY 541 GACGCTGAAGATTAAGTGTGAAGAACATGATCACAATGAAATGGATCCCTCTGATCCC 600
DB 572 GACGCTGAARATTAATGTGAAGAACATGATCACAATGAAATGGATCCCTCTGATCCC 631
QY 601 CTGACATGAAGGG-GGGCATATTAATGATGCTTCATG 638
DB 632 CTGACATGAAGGGGAGGCATATTAATGATGCTTCATG 670

XX Example 28; Page 141-142; 244bp; English.

CC This sequence represents a portion of a nucleic acid sequence of the
CC invention. The invention relates to 70 nucleic acids encoding human
CC secreted proteins. The extended cDNAs (or genomic DNAs obtainable from
CC them) may be used to prepare PCR primers and probes. These are useful for
CC forensic matching or positive identification by DNA sequencing. They may
CC also be used in alternative fingerprint identification techniques.
CC Antibodies against the proteins encoded by the extended cDNAs are useful
CC in identification of tissue types or cell species, as well as identifying
CC tissue specific soluble proteins. The sequences can be used for
CC chromosome mapping and identification of genes associated with hereditary
CC diseases or drug response. Signal sequences from the cDNAs can be used in
CC construction of secretion vectors. Other sequences derived from the
CC extended cDNAs can be used to clone upstream genomic DNA sequences
CC including promoters. This is in turn useful for identifying proteins that
CC interact with promoter sequences. Some of the proteins may be useful in
CC diagnosing and treating several disorders including, but not limited to:
CC cancer, hyperlipidaemia, cardiovascular and neurodegenerative disorders,
CC autoimmune diseases, and rheumatic diseases, embryogenic disorders,
CC hypertension, renal injury, amino acidurias, hypoglycaemia, male rat
CC infertility and myopathies

XX Sequence 848 BP; 257 A; 180 C; 161 G; 244 T; 0 U; 6 Other;

Query Match 98.0%; Score 625; DB 2; Length 848;

Best Local Similarity 99.2%; Pred. No. 8.7e-181;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

```
OY 1 ATGTTGTGGCTGCTCTTTTTCGTGAGTCCATTCATGCTGAACCTGTCAACCGGT 60
DB 32 ATGTTGTGGCTGCTCTTTTTCGTGAGTCCATTCATGCTGAACCTGTCAACCGGT 91
OY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGACAGCTCTGGAGATTAAGCATAT 120
DB 92 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGACAGCTCTGGAGATTAAGCATAT 151
OY 121 GCCTGGATACCAATGAAGATACCTCTTCAAGCATGTAGCTTTCTCCATGAGAAA 180
DB 152 GCCTGGATACCAATGAAGATACCTCTTCAAGCATGTAGCTTTCTCCATGAGAAA 211
OY 181 GTTCCCAACAGAGAACCAAGAAATTTCCATGTCCTACTTTGCAATGTAAACCGAGAG 240
DB 212 GTTCCCAACAGAGAACCAAGAAATTTCCATGTCCTACTTTGCAATGTAAACCGAGAG 271
OY 241 GTATCATTTCTGTTGTGTTAGACACCTTCAAAAAATCACACCTCTCTGCTGTGAG 300
DB 272 GTATCATTTCTGTTGTGTTAGACACCTTCAAAAAATCACACCTCTCTGCTGTGAG 331
OY 301 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCAACATGCTCTTCTTAATGAC 360
DB 332 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCAACATGCTCTTCTTAATGAC 391
OY 361 CAAACTCTGAATTTTAAAAATCCTTCCACACTTGCACACCCAGGAGCCATCTGTG 420
DB 392 CAAACTCTGAATTTTAAAAATCCTTCCACACTTGCACACCCAGGAGCCATCTGTG 451
OY 421 CCCATCTGATTTATATATTGTTGATGATTTTTCATCATCATAGTTGCAATGCACTA 480
DB 452 CCCATCTGATTTATATATTGTTGATGATTTTTCATCATCATAGTTGCAATGCACTA 511
OY 481 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAAGAACCAATCTGAAGTGAT 540
DB 512 CTGATTTTATCAGGATCTGGCAACGTADARAAGAAAGAACCAATCTGAAGTGAT 571
OY 541 GACGCTGAAGATAGTGAAGAACATGATCAACAATGAAGATGCAATCCCTCTGATCC 600
DB 572 GACGCTGAAGATAGTGAAGAACATGATCAACAATGAAGATGCAATCCCTCTGATCC 631
OY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCATG 638
DB 632 CTGACATGAAGGAGGCGCATATTAATGATGCTTCATG 670
```

RESULT 221

AA26672 ID AAX26672 standard; RNA; 848 BP.

XX AAX26672;

DT 18-JUN-1999 (first entry)

XX Extended cDNA derived from a 5' EST encoding a secreted protein.

XX Human; secreted protein; EST; expressed sequence tag; diagnosis;
KW forensic; gene therapy; chromosome mapping; signal peptide;
KW upstream regulatory sequence; cytokine activity; cell proliferation;
KW differentiation; haematopoiesis regulation; tissue growth regulation;
KW reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
KW thrombolytic; anti-inflammatory; tumour inhibition; ss.

XX Homo sapiens.

XX WO9906554-A2.

XX 11-FEB-1999.

XX 31-JUL-1998; 98WO-1B001238.

XX 01-AUG-1997; 97US-00905134.

XX (GIST) GENSET.

XX Dumas Milne Edwards J, Duclert A, Lacroix B;

XX WPI; 1999-153784/13.

XX P-PSDB; AAY01594.

PT New nucleic acids encoding human secreted proteins - obtained from cDNA
PT libraries prepared from kidney, fetal kidney, dystrophic muscle, muscle
PT and heart tissue.

PS Example 28; Page 160-161; 622bp; English.

XX The present sequence represents an extended cDNA sequence derived from a
CC 5' EST encoding a secreted protein. The specification describes 5'
CC expressed sequence tags (ESTs, see AAX40826-X41093) for human secreted
CC proteins (see AAY01602 and AAY11994-Y12260). The proteins given represent
CC the signal peptide and an N-terminal fragment of a secreted protein. The
CC nucleic acid sequences can be used for producing secreted human gene
CC products. They can also be used to develop products for diagnosis and
CC therapy. The proteins obtained may have cytokine activity, cell
CC proliferation/differentiation activity, haematopoiesis regulating
CC activity, tissue growth regulating activity, reproductive hormone
CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, tumour inhibition activity or other activities. The products
CC can be used in forensic, gene therapy and chromosome mapping procedures.
CC The sequences can also be used for obtaining corresponding promoter
CC sequences. The nucleic acids encoding the signal peptide can be used for
CC directing extracellular secretion of a polypeptide or the insertion of a
CC polypeptide into a membrane, or importing a polypeptide into a cell

XX Sequence 848 BP; 257 A; 180 C; 161 G; 244 T; 0 U; 6 Other;

Query Match 98.0%; Score 625; DB 2; Length 848;

Best Local Similarity 99.2%; Pred. No. 8.7e-181;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

```
OY 1 ATGTTGTGGCTGCTCTTTTTCGTGAGTCCATTCATGCTGAACCTGTCAACCGGT 60
DB 32 ATGTTGTGGCTGCTCTTTTTCGTGAGTCCATTCATGCTGAACCTGTCAACCGGT 91
OY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGACAGCTCTGGAGATTAAGCATAT 120
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Db 92 GCAGAAATGCTTTTAAAGAGACTTAGTATCAGAACAGCTGGAGATTAAGCATAT 151
Qy 121 GCCTGGGATACCAATGAGATACCTCTTCAAGCGATGTAGCTTCTCCATGAGAAA 180
Db 152 GCCTGGGATACCAATGAGATACCTCTTCAAGCGATGTAGCTTCTCCATGAGAAA 211
Qy 181 GTTCCCAACAGAGAGACAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCAAGAG 240
Db 212 GTTCCCAACAGAGAGACAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCAAGAG 271
Qy 241 GTATCATTTCTGTTGTGTGTACAGACCTTCAAAAAATCACACCTTCTCTGTGTAG 300
Db 272 GTATCATTTCTGTTGTGTGTACAGACCTTCAAAAAATCACACCTTCTCTGTGTAG 331
Qy 301 GTGCAATCAGCCATAGAGATGAGACAGACCGGATCAACATGCTTCTTCTAATATGAC 360
Db 332 GTGCAATCAGCCATAGAGATGAGACAGACCGGATCAACATGCTTCTTCTAATATGAC 391
Qy 361 CAAACTCTGGAATTTTAAATCCCTTCCACACTTGACCAACCCATGACCATCTGTG 420
Db 392 CAAACTCTGGAATTTTAAATCCCTTCCACACTTGACCAACCCATGACCATCTGTG 451
Qy 421 CCCATCTGGAATTTTATATTTGTGTGTATTTTGTATCATATGTTGCAATTGCACTA 480
Db 452 CCCATCTGGAATTTTATATTTGTGTGTATTTTGTATCATATGTTGCAATTGCACTA 511
Qy 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAAAGAAACCATCTGAAAGTGAT 540
Db 512 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAAAGAAACCATCTGAAAGTGAT 571
Qy 541 GACGCTGAAGATTAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCTGTATCC 600
Db 572 GACGCTGAAGATTAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCTGTATCC 631
Qy 601 CTGACATGAAAGG-GGGCATATTATGATGCTTCATG 638
Db 632 CTGACATGAAAGGAGGAGGATATTATGATGCTTCATG 670

RESULT 222

AA51777
ID AAX51777 standard; cDNA; 848 BP.
XX
AC AAX51777;
XX
DT 22-JUN-1999 (first entry)
XX
DE Human secreted protein 5' EST clone 58-35-2-F10-FL2.
XX
KW Human; secreted protein; EST; expressed sequence tag; diagnosis;
KW forensic; gene therapy; chromosome mapping; signal peptide;
KW upstream regulatory sequence; cytokine activity; cell proliferation;
KW differentiation; haematopoiesis regulation; tissue growth regulation;
KW reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
KW thrombolytic; anti-inflammatory; tumour inhibition; ds.

XX Homo sapiens.
XX OS
XX PN MO9906552-A2.
XX PD 11-FEB-1999.
XX PF 31-JUL-1998; 98WO-IB001236.
XX PR 01-AUG-1997; 97US-00905223.
XX PA (GBST) GENSET.
XX PI Dumas Milne Edwards J, Duclert A, Lacroix B;
XX DR WPI; 1999-153782/13.
XX P-PSDB; AAY12986.
XX

PT New isolated brain-derived nucleic acids - used to develop products which
PT may have cytokine, immune, regulatory, haematopoiesis regulating, anti-
PT inflammatory or tumour inhibition activity.
XX
XX
PS Example 28; Page 159-160; 577pp; English.

XX
CC AAX51787 to AAX52019 represent 5' expressed sequence tags (ESTs) for
CC human secreted proteins, and encode the proteins given in AAY12987 to
CC AAY13219, respectively. The proteins given represent the signal peptide
CC and an N-terminal fragment of a secreted protein. The nucleic acid
CC sequences can be used for producing secreted human gene products. They
CC can also be used to develop products for diagnosis and therapy. The
CC proteins obtained may have cytokine activity, cell
CC proliferation/differentiation activity, haematopoiesis regulating
CC activity, tissue growth regulating activity, reproductive hormone
CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, tumour inhibition activity or other activities. The products
CC can be used in forensic, gene therapy and chromosome mapping procedures.
CC The sequences can also be used for obtaining corresponding promoter
CC sequences. The nucleic acids encoding the signal peptide can be used for
CC directing extracellular secretion of a polypeptide or the insertion of a
CC polypeptide into a membrane, or importing a polypeptide into a cell. This
CC sequence represents the human secreted protein 5' EST clone 58-35-2-F10-
CC FL2
XX

SO Sequence 848 BP; 257 A; 180 C; 161 G; 244 T; 0 U; 6 Other;

Query Match 98.0%; Score 625; DB 2; Length 848;
Best local similarity 99.2%; Pred. No. 8.7e-181;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

Qy 1 ATGTTGTGCTGCTCTTTTCTGTGTGACCTGCAATTCATGCTGAACCTGTGAACCAAGT 60
Db 32 ATGTTGTGCTGCTCTTTTCTGTGTGACCTGCAATTCATGCTGAACCTGTGAACCAAGT 91
Qy 61 GCAGAAATGCTTTTAAAGTGAAGACTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 120
Db 92 GCAGAAATGCTTTTAAAGTGAAGACTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 151
Qy 121 GCCTGGATACCAATGAGATACCTCTTCAAGCGATGTAGCTTCTCCATGAGAAA 180
Db 152 GCCTGGATACCAATGAGATACCTCTTCAAGCGATGTAGCTTCTCCATGAGAAA 211
Qy 181 GTTCCCAACAGAGAGACAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCAAGAG 240
Db 212 GTTCCCAACAGAGAGACAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCAAGAG 271
Qy 241 GTATCATTTCTGTTGTGTGTACAGACCTTCAAAAAATCACACCTTCTCTGTGTAG 300
Db 272 GTATCATTTCTGTTGTGTGTACAGACCTTCAAAAAATCACACCTTCTCTGTGTAG 331
Qy 301 GTGCAATCAGCCATAGAGATGAGACAGACCGGATCAACATGCTTCTTCTAATATGAC 360
Db 332 GTGCAATCAGCCATAGAGATGAGACAGACCGGATCAACATGCTTCTTCTAATATGAC 391
Qy 361 CAAACTCTGGAATTTTAAATCCCTTCCACACTTGACCAACCCATGACCATCTGTG 420
Db 392 CAAACTCTGGAATTTTAAATCCCTTCCACACTTGACCAACCCATGACCATCTGTG 451
Qy 421 CCCATCTGGAATTTTATATTTGTGTGTATTTTGTATCATATGTTGCAATTGCACTA 480
Db 452 CCCATCTGGAATTTTATATTTGTGTGTATTTTGTATCATATGTTGCAATTGCACTA 511
Qy 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAAAGAAACCATCTGAAAGTGAT 540
Db 512 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAAAGAAACCATCTGAAAGTGAT 571
Qy 541 GACGCTGAAGATTAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCTGTATCC 600
Db 572 GACGCTGAAGATTAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCTGTATCC 631
Qy 601 CTGACATGAAAGG-GGGCATATTATGATGCTTCATG 638

Db 632 CTGACATGAAGGAGGCATATTAATGATGCTTCATG 670

RESULT 223

AAK51449
ID AAK51449 standard; DNA; 848 BP.

AAK51449;

DT 21-JUN-1999 (first entry)

DE Human secreted protein 5' EST SEQ ID NO. 27.

KM Human; secreted protein; EST; expressed sequence tag; diagnosis;
KM forensic; gene therapy; chromosome mapping; signal peptide;
KM upstream regulatory sequence; cytokine activity; cell proliferation;
KM differentiation; haematopoiesis regulation; tissue growth regulation;
KM reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
KM thrombolytic; anti-inflammatory; tumour inhibition; ds.

OS Homo sapiens.

PN WO9906549-A2.

PD 11-FEB-1999.

PF 31-JUL-1998; 98WO-IB001231.

PR 01-AUG-1997; 97US-00905279.

PA (GENSET).

PI Dumas Milne Edwards J, Duclert A, Lacroix B;

DR WPI; 1999-153779/13.

DR P-PSDB; AAY12679, AAY12680.

PT New nucleic acids encoding human secreted proteins - obtained from cDNA
libraries derived from testis, ovary, uterus and spleen tissue.

PS Example 28; Page 159-160; 522pp; English.

CC AAK51459 to AAK51691 represent 5' expressed sequence tags (BSTs) for
human secreted proteins, and encode the proteins given in AAY12681 to
AAY12913, respectively. The proteins given represent the signal peptide
and an N-terminal fragment of a secreted protein. The nucleic acid
sequences can be used for producing secreted human gene products. They
can also be used to develop products for diagnosis and therapy. The
proteins obtained may have cytokine activity, cell
proliferation/differentiation activity, haematopoiesis regulating
activity, tissue growth regulating activity, reproductive hormone
regulating activity, chemotactic/chemokinetic activity, haemostatic and
thrombolytic activity, receptor/ligand activity, anti-inflammatory
activity, tumour inhibition activity or other activities. The products
can be used in forensic, gene therapy and chromosome mapping procedures.
The sequences can also be used for obtaining corresponding promoter
sequences. The nucleic acids encoding the signal peptide can be used for
directing extracellular secretion of a polypeptide or the insertion of a
polypeptide into a membrane, or importing a polypeptide into a cell. This
sequence represents an oligonucleotide used in an example in the
invention, to the isolate the 5' EST sequences of the invention

XX Sequence 848 BP; 257 A; 180 C; 161 G; 244 T; 0 U; 6 Other;

Query Match 98.0%; Score 625; DB 2; Length 848;

Best local similarity 99.2%; Pred. No. 8.7e-181;

Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTTGTGGCTCTTTTTCGAGTGAATGCAATTCATGCTGTAACCAAGT 60
PI |||||||
XX |||||||
DB 32 ATGTTGTGGCTCTTTTTCGAGTGAATGCAATTCATGCTGTAACCAAGT 91

QY 61 GCAGAAATGCTTTTAAAGTAGAGCTTAGTATCAGAAAGAGCTCTGGAGATAAAGCATAT 120
DB 92 GCAGAAATGCTTTTAAAGTAGAGCTTAGTATCAGAAAGAGCTCTGGAGATAAAGCATAT 151

QY 121 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGAGCTTCTCCATGAGAAAA 180
DB 152 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGAGCTTCTCCATGAGAAAA 211

QY 181 GTTCCACAGAGAAGACAGAAATTTCCATGTCTACTTTGCAATGTAACCCAGAG 240
DB 212 GTTCCACAGAGAAGACAGAAATTTCCATGTCTACTTTGCAATGTAACCCAGAG 271

QY 241 GTATCATCTGTTGTGTGTTACAGACCTTCAAAAAATGACACCTTCTGCTGTAG 300
DB 272 GTATCATCTGTTGTGTGTTACAGACCTTCAAAAAATGACACCTTCTGCTGTAG 331

QY 301 GTGCAATCAGCCATAAGATGAACAAGAACCGATCAACATGCTTCTTAATGAC 360
DB 332 GTGCAATCAGCCATAAGATGAACAAGAACCGATCAACATGCTTCTTAATGAC 391

QY 361 CAACTCTGAATTTTAAAAATCCCTCCACACTTGACCAACCCATGACCATCTGTG 420
DB 392 CAACTCTGAATTTTAAAAATCCCTCCACACTTGACCAACCCATGACCATCTGTG 451

QY 421 CCCATCTGATTTATTTATTTGTTGATATTTTGCATCATCATAGTTGCAATGCACTA 480
DB 452 CCCATCTGATTTATTTATTTGTTGATATTTTGCATCATCATAGTTGCAATGCACTA 511

QY 481 CTGATTTTATCAGGATCTGCGAACCTGAGAAAGAAAGAACCAACCATCTGAAGTGA 540
DB 512 CTGATTTTATCAGGATCTGCGAACCTGAGAAAGAAAGAACCAACCATCTGAAGTGA 571

QY 541 GACGCTGAAGTAAGTGAAGAAACATGATCACAATTTGAATGGCATCCCTCTGATCCC 600
DB 572 GACGCTGAAGTAAGTGAAGAAACATGATCACAATTTGAATGGCATCCCTCTGATCCC 631

QY 601 CTGACATGAAGG-GGGCATATTATGATGCTTCATG 638
DB 632 CTGACATGAAGGAGGCATATTATGATGCTTCATG 670

RESULT 224

AAK40428
ID AAK40428 standard; cDNA; 848 BP.

AC AAK40428;

DT 18-JUN-1999 (first entry)

DE Extended cDNA derived from 5' BST.

KM Human; secreted protein; EST; expressed sequence tag; diagnosis;
KM forensic; gene therapy; chromosome mapping; signal peptide; prostate;
KM upstream regulatory sequence; cytokine activity; cell proliferation;
KM differentiation; haematopoiesis regulation; tissue growth regulation;
KM reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
KM thrombolytic; anti-inflammatory; tumour inhibition; ds.

OS Homo sapiens.

PN WO9906550-A2.

PD 11-FEB-1999.

PF 31-JUL-1998; 98WO-IB001232.

PR 01-AUG-1997; 97US-00905144.

PA (GENSET).

PI Dumas Milne Edwards J, Duclert A, Lacroix B;

DR WPI; 1999-153780/13.

DR P-PSDB; AAY11715.
XX
PT New isolated prostate-derived nucleic acids - used to develop products
PT which may have cytokine, immune regulatory, haematopoiesis regulating,
PT anti-inflammatory or tumour inhibition activity.
XX
PS Example 28; Page 160-161; 675pp; English.
XX
CC AAX40438 to AAX40715 represent 5' expressed sequence tags (ESTs) for
CC human secreted proteins expressed in prostate, and encode the proteins
CC given in AAY11716 to AAY11993 respectively. The proteins given represent
CC the signal peptide and an N-terminal fragment of a secreted protein. The
CC nucleic acid sequences can be used for producing secreted human gene
CC products. They can also be used to develop products for diagnosis and
CC therapy. The proteins obtained may have cytokine activity, cell
CC proliferation and differentiation activity, haematopoiesis regulating
CC activity, tissue growth regulating activity, reproductive hormone
CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, tumour inhibition activity or other activities. The products
CC can be used in forensic, gene therapy and chromosome mapping procedures.
CC The sequences can also be used for obtaining corresponding promoter
CC sequences. The nucleic acids encoding the signal peptides can be used for
CC directing extracellular secretion of a polypeptide or the insertion of a
CC polypeptide into a membrane, or importing a polypeptide into a cell
XX
SQ Sequence 848 BP; 257 A; 180 C; 161 G; 244 T; 0 U; 6 Other;
Query Match 98.0%; Score 625; DB 2; Length 848;
Best Local Similarity 99.2%; Pred. No. 8.7e-181;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;
QY 1 ATGTGTGGCTGCTCTTTTCTGTGACTGCTCCATTCATGCTGAATCTGTCAACGAGT 60
DB 32 ATGTGTGGCTGCTCTTTTCTGTGACTGCTCCATTCATGCTGAATCTGTCAACGAGT 91
QY 61 GCAGAAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTGTGGAGATAAGCATAT 120
DB 92 GCAGAAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTGTGGAGATAAGCATAT 151
QY 121 GCCTGGATACCAATGAAGAACTCTTCAAGCGATGGTAGCTTCTCCATGAGAAA 180
DB 152 GCCTGGATACCAATGAAGAACTCTTCAAGCGATGGTAGCTTCTCCATGAGAAA 211
QY 181 GTTCCCAACAGAGAACACAGAAATTTCCCATGCTCTTTCATATGTAACAGAGG 240
DB 212 GTTCCCAACAGAGAACACAGAAATTTCCCATGCTCTTTCATATGTAACAGAGG 271
QY 241 GTATCATCTGCTTGTGTGATGAGACCTTCAAAAAATCACACCTTCTGCTGTGAG 300
DB 272 GTATCATCTGCTTGTGTGATGAGACCTTCAAAAAATCACACCTTCTGCTGTGAG 331
QY 301 GTGCAATCAGCATAAGATGAACAAGAACCGATCAACAATGCTTCTTCTAAATGAC 360
DB 332 GTGCAATCAGCATAAGATGAACAAGAACCGATCAACAATGCTTCTTCTAAATGAC 391
QY 361 CAAACTCTGGAATTTTAAAAATCCCTCCACACTTGACACCAACCATGAGCCATCTGTG 420
DB 392 CAAACTCTGGAATTTTAAAAATCCCTCCACACTTGACACCAACCATGAGCCATCTGTG 451
QY 421 CCCATCTGATTTATATTTTGTGTGATATTTTGCATCATCATAGTGAATTCAGCTA 480
DB 452 CCCATCTGATTTATATTTTGTGTGATATTTTGCATCATCATAGTGAATTCAGCTA 511
QY 481 CTGATTTTATCAGGATCTGCGAACGTAGAGAAAGAACAAACCATCTGAAGTGAAT 540
DB 512 CTGATTTTATCAGGATCTGCGAACGTADARAAAGAACAAACCATCTGAAGTGAAT 571
QY 541 GACGCTGAAGATAGTGTGAAGAACATGATCAACAATGGAATGCCCTCTGATCCC 600
DB 572 GACGCTGAARATATATGTGAAGAACATGATCAACAATGGAATGCCCTCTGATCCC 631
QY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCATG 638

DB 632 CTGACATGAAGGAGGAGCATATTAATGATGCTTCATG 670
|||||
RESULT 225
AAZ42251
ID AAZ42251 standard; cDNA; 848 BP.
XX
AC AAZ42251;
XX
DT 01-FEB-2000 (first entry)
XX
DE Human full length cDNA 58-35-2-F10-FL2.
XX
KM Human; 5' EST; expressed sequence tag; secreted protein; diagnosis;
KM gene therapy; chromosome mapping; upstream regulatory sequence; forensic;
KM location; development; protein synthesis; stability; regulation;
KM identification; ss.
XX
OS Homo sapiens.
XX
PN WO953051-A2.
XX
PD 21-OCT-1999.
XX
PF 09-APR-1999; 99WO-IB000712.
XX
PR 09-APR-1998; 98US-00057719.
XX
PR 28-APR-1998; 98US-00069047.
XX
PA (GEST) GENSET.
XX
PI Dumas Milne Edwards J, Duclert A, Giordano J;
XX
DR WPI; 2000-038446/03.
DR P-PSDB; AAY64646.
XX
PT Novel secreted protein 5' expressed sequence tag sequences used in
PT diagnostic, forensic, gene therapy, and chromosome mapping procedures.
XX
PS Example 21; Page 167-168; 837pp; English.
XX
CC AAZ42265 to AAZ43075 represent novel 5' expressed sequence tag (EST)
CC sequences, corresponding to human secreted proteins. AAY64651 to AAY65438
CC represent the EST-related proteins corresponding to AAZ42265 to AAZ43052.
CC The 5' ESTs can be used for producing secreted human gene products. They
CC can be used to identify and isolate 5' untranslated regions (UTRs) and
CC upstream regulatory regions which control the location, development
CC stage, rate, and quantity of protein synthesis, as well as stability of
CC mRNA. The ESTs are also useful as probes for chromosome mapping, and to
CC obtain full length cDNA clones. The ESTs can also be used in forensic
CC procedures to identify individuals, or in diagnostic procedures to
CC identify individuals having genetic diseases resulting from abnormal gene
CC expression. The products may also be used in gene therapy protocols. The
CC nucleic acids encoding signal peptides can be used for directing
CC extracellular secretion of a polypeptide or the insertion of a
CC polypeptide into a membrane, or importing a polypeptide into a cell. The
CC proteins encoded by the EST sequences may be useful in treating a variety
CC of human conditions. Secreted proteins have therapeutic value, and the
CC identification of new secreted proteins is valuable. AAZ42249 to AAZ42264
CC and AAY64644 to AAY64650 represent sequences used in the exemplification
CC of the present invention
XX
SQ Sequence 848 BP; 257 A; 180 C; 161 G; 244 T; 0 U; 6 Other;
Query Match 98.0%; Score 625; DB 3; Length 848;
Best Local Similarity 99.2%; Pred. No. 8.7e-181;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;
QY 1 ATGTGTGGCTGCTCTTTTCTGTGACTGCTCCATTCATGCTGAATCTGTCAACGAGT 60
DB 32 ATGTGTGGCTGCTCTTTTCTGTGACTGCTCCATTCATGCTGAATCTGTCAACGAGT 91

QY 61 GCAGAAATGCTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAGCATAT 120
DB 92 GCAGAAATGCTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAGCATAT 151
QY 121 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGAGTCTTCTCCATGAGAAAA 180
DB 152 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGAGTCTTCTCCATGAGAAAA 211
QY 181 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCAAGAG 240
DB 212 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCAAGAG 271
QY 241 GTATCATTTGCTTTGTGTTAGACACCTTCAAAAATCAACACCTTCTGCTGTTGAG 300
DB 272 GTATCATTTGCTTTGTGTTAGACACCTTCAAAAATCAACACCTTCTGCTGTTGAG 331
QY 301 GTGCAATCAGCCATTAAGATGAACAGAACCCGATCAACATGCTTCTTTCTAAATGAC 360
DB 332 GTGCAATCAGCCATTAAGATGAACAGAACCCGATCAACATGCTTCTTTCTAAATGAC 391
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGGACACCAATGAGCCATCTGTG 420
DB 392 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGGACACCAATGAGCCATCTGTG 451
QY 421 CCCATCTGGAATTTATATTTGTGTTGATATTTGTCATCATGATGTCATTTGCAATGCACTA 480
DB 452 CCCATCTGGAATTTATATTTGTGTTGATATTTGTCATCATGATGTCATTTGCAATGCACTA 511
QY 481 CTGATTTTATCAGGATCTGCAACGTAGAAGAAAGAACCAATCTGTAAGTGGAT 540
DB 512 CTGATTTTATCAGGATCTGCAACGTAGAAGAAAGAACCAATCTGTAAGTGGAT 571
QY 541 GACGCTGAAGATTAAGTGTGAAGAAATGATCACAATGAAATGGATCCCTCTGATCCC 600
DB 572 GACGCTGAAGATTAAGTGTGAAGAAATGATCACAATGAAATGGATCCCTCTGATCCC 631
QY 601 CTGACATGAAGGG-GGGCATATTAATGATGCTTCATG 638
DB 632 CTGACATGAAGGGAGGGCATATTAATGATGCTTCATG 670

RESULT 226
AAC00012
ID AAC00012 standard; cDNA; 848 BP.
AC AAC00012;
XX
XX 06-OCT-2000 (first entry)
DB Human secreted protein cDNA sequence #3.
XX
XX Human, secreted protein; 5' EST; expressed sequence tag; cDNA isolation;
KW gene therapy; chromosome mapping; ss.
XX
OS Homo sapiens.
XX
FH Key location/Qualifiers
FT CDS 32..700
FT /*tag= a
FT /product= "secreted protein"
FT /transl_except= (pos:539..541,aa:Xaa)
FT /transl_except= (pos:542..544,aa:Xaa)
FT /transl_except= (pos:581..583,aa:Xaa)
FT /transl_except= (pos:584..586,aa:Xaa)
FT /note= "Xaa= unspecified amino acid"
FT sig_peptide 32..73
FT /*tag= b
FT mat_peptide 74..697
FT /*tag= c
XX
PN BP1033401-A2.
XX
PD 06-SBP-2000.

XX 21-FEB-2000; 2000BP-00200610.
PF
XX 26-FEB-1999; 99US-0122487P.
PR
XX (GBST) GENSET.
PA
PI Dumas Milne Edwards J, Duclert A, Giordano J;
XX WPI, 2000-500381/45.
DR P-PSDB; AAG00014, AAG00015.
XX
PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
PT obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for
PT diagnostic, forensic, gene therapy and chromosome mapping procedures.
XX
PS Example 19; SEQ ID NO 5; 71bp + Sequence Listing; English.
XX
CC The present sequence is a full length cDNA encoding a human secreted
CC protein. The cDNA was obtained from a 5' EST using first and second
CC strand synthesis procedures. 5' ESTs were prepared from total human RNAs
CC or polyA+ RNAs derived from 30 different tissues. EST sequences usually
CC correspond mainly to the 3' untranslated region (UTR) of the mRNA because
CC they are often obtained from oligo-dT primed cDNA libraries. Such ESTs
CC are not well suited for isolating cDNA sequences derived from the 5' ends
CC of mRNAs and even in those cases where longer cDNA sequences have been
CC obtained, the full 5' UTR is rarely included. 5' ESTs are derived from
CC mRNAs with intact 5' ends and can therefore be used to obtain full length
CC cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,
CC gene therapy and chromosome mapping procedures. They are used to obtain
CC upstream regulatory sequences and to design expression and secretion
CC vectors
XX
SQ Sequence 848 BP; 257 A; 180 C; 161 G; 244 T; 0 U; 6 Other;
XX
Query Match 98.0%; Score 625; DB 3; Length 848;
Best Local Similarity 99.2%; Pred. No. 8.7e-181;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;
QY 1 ATGTTGTGGCTGCTCTTTTCTGAGTCAATGCTGAAGTCAACCTGCTCAACCTGCT 60
DB 32 ATGTTGTGGCTGCTCTTTTCTGAGTCAATGCTGAAGTCAACCTGCTCAACCTGCT 91
QY 61 GCAGAAATGCTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAGCATAT 120
DB 92 GCAGAAATGCTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAGCATAT 151
QY 121 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGAGTCTTCTCCATGAGAAAA 180
DB 152 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGAGTCTTCTCCATGAGAAAA 211
QY 181 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCAAGAG 240
DB 212 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCAAGAG 271
QY 241 GTATCATTTGCTTTGTGTTAGACACCTTCAAAAATCAACACCTTCTGCTGTTGAG 300
DB 272 GTATCATTTGCTTTGTGTTAGACACCTTCAAAAATCAACACCTTCTGCTGTTGAG 331
QY 301 GTGCAATCAGCCATTAAGATGAACAGAACCCGATCAACATGCTTCTTTCTAAATGAC 360
DB 332 GTGCAATCAGCCATTAAGATGAACAGAACCCGATCAACATGCTTCTTTCTAAATGAC 391
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGGACACCAATGAGCCATCTGTG 420
DB 392 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGGACACCAATGAGCCATCTGTG 451
QY 421 CCCATCTGGAATTTATATTTGTGTTGATATTTGTCATCATGATGTCATTTGCAATGCACTA 480
DB 452 CCCATCTGGAATTTATATTTGTGTTGATATTTGTCATCATGATGTCATTTGCAATGCACTA 511
QY 481 CTGATTTTATCAGGATCTGCAACGTAGAAGAAAGAACCAATCTGTAAGTGGAT 540

Db 512 CTGATTTTATCAGGGATCTGGCAACGTADAAAGAAACCAACATCTGAAGTGAT 571
Qy 541 GACGCTGAAGATTAAGTGTGAAAAATGATACAAATGAAATGCAATCCCTTGATCCC 600
Db 572 GACGCTGAARATTAATGTGAAAAATGATACAAATGAAATGCAATCCCTTGATCCC 631
Qy 601 CTGACATGAAGGG-GGGCAATTAATGATGCTTCATG 638
Db 632 CTGACATGAAGGGGCAATTAATGATGCTTCATG 670

RESULT 227

AAK8191
ID AAK8191 standard; cDNA; 848 BP.

XX AAK8191;

DT 23-SEP-1999 (first entry)

XX Human secreted protein 6 extended cDNA.

XX Secreted protein; human; cytostatic; thrombotic; osteopathic; forensic;

KM diagnostic; gene therapy; chromosome mapping; secretion vector; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

FT CDS 32..700

FT /tag= a

FT /product= "secreted protein"

XX W09925825-A2.

XX 27-MAY-1999.

XX 13-NOV-1998; 98WO-IB001862.

XX 13-NOV-1997; 97US-0066677P.

XX 17-DEC-1997; 97US-0069957P.

XX 09-FEB-1998; 98US-0074121P.

XX 13-APR-1998; 98US-0081563P.

XX 10-AUG-1998; 98US-0096116P.

XX 04-SEP-1998; 98US-0099273P.

XX (BEST) GENSET.

XX Bougueleret L, Duclet A, Dumas Milne Edwards J;

XX WPI; 1999-347472/29.

XX P-PSDB; AAY25459, AAY25460.

XX Extended cDNAs encoding secreted proteins.

XX Example 28; Page 138; 307pp; English.

XX This invention describes novel nucleic acid sequences of extended cDNAs

XX (see AAY97813-X97906) which encode human secreted proteins (see AAY36129-

XX Y36222) and which have cytostatic, thrombotic and osteopathic activity.

XX The extended cDNAs can be used to express secreted proteins or parts of

XX them or to obtain antibodies capable of binding to the secreted proteins.

XX They may also be used in diagnostic, forensic, gene therapy and

XX chromosome mapping procedures. Uses also include design of expression

XX vectors and secretion vectors. This sequence represents an extended cDNA

Db 32 ATGTTGTGGCTGCTTTTCTGATGAGCTGCCATTCATGCTGAACCTGTGCAACGAGT 91
Qy 61 GCAGAAATGCTTTAAAGTGAGCTTAGTATGAGACAGCTCTGGAGATTAAGCATAT 120
Db 92 GCAGAAATGCTTTAAAGTGAGCTTAGTATGAGACAGCTCTGGAGATTAAGCATAT 151
Qy 121 GCCCTGGATACCAATGAAGAAATACCTCTCAAGGATGTAGCTTCTCCATGAGAAA 180
Db 152 GCCCTGGATACCAATGAAGAAATACCTCTCAAGGATGTAGCTTCTCCATGAGAAA 211
Qy 181 GTTCCCAACAGAGAACACAGAAATTTCCCATGTCTTACTTTGCAATGTAACCCAGAG 240
Db 212 GTTCCCAACAGAGAACACAGAAATTTCCCATGTCTTACTTTGCAATGTAACCCAGAG 271
Qy 241 GTATCATTTCTGTTGTGTGTACAGACCTTCAAAAATACACACCTTCTGTTAG 300
Db 272 GTATCATTTCTGTTGTGTGTGTACAGACCTTCAAAAATACACACCTTCTGTTAG 331
Qy 301 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCAACATGCTTCTTAAATGAC 360
Db 332 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCAACATGCTTCTTAAATGAC 391
Qy 361 CAACTCTGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCATGAGCATCTG 420
Db 392 CAACTCTGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCATGAGCATCTG 451
Qy 421 CCCATCTGATTAATTAATTTGGTGTGATTAATTTGATCATCATATGTTGCAATTGCACTA 480
Db 452 CCCATCTGATTAATTAATTTGGTGTGATTAATTTGATCATCATATGTTGCAATTGCACTA 511
Qy 481 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAACAAAGAACCATCTGAAGTGAT 540
Db 512 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAACAAAGAACCATCTGAAGTGAT 571

Qy 541 GACGCTGAAGATTAAGTGTGAAAAATGATACAAATGAAATGCAATCCCTTGATCCC 600

Db 572 GACGCTGAARATTAATGTGAAAAATGATACAAATGAAATGCAATCCCTTGATCCC 631

Qy 601 CTGACATGAAGGG-GGGCAATTAATGATGCTTCATG 638

Db 632 CTGACATGAAGGGGCAATTAATGATGCTTCATG 670

RESULT 228

AAK30083
ID AAK30083 standard; cDNA; 847 BP.

XX AAK30083;

DT 17-JUN-1999 (first entry)

XX Human secreted protein 5' EST SEQ ID NO:27.

XX Human; secreted protein; EST; expressed sequence tag; diagnosis;

XX forensic; gene therapy; chromosome mapping; signal peptide;

XX upstream regulatory sequence; cytokine activity; cell proliferation;

XX differentiation; haematopoiesis regulation; tissue growth regulation;

XX reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;

XX thrombolytic; anti-inflammatory; tumour inhibition; ds.

XX Homo sapiens.

XX W09906548-A2.

XX 11-FEB-1999.

XX 31-JUL-1998; 98WO-IB001222.

XX 01-AUG-1997; 97US-00905135.

XX (BEST) GENSET.

PI Dumas Milne Edwards J, Duclert A, Lacroix B;
XX
DR MPI; 1999-153778/13.
DR P-PSDB; AAY04174.

XX New nucleic acids encoding human secreted proteins - obtained from cDNA
PT libraries prepared from e.g. liver, ovary, brain, prostate, kidney, lung,
PT umbilical cord, placenta and colon tissue.

XX Example 28; Page 174-175; 824pp; English.

XX AAX41094 to AAX41347 represent 5' expressed sequence tags (ESTs) for
CC human secreted proteins, and encode the proteins given in AAY12261 to
CC AAY12514, respectively. The proteins given represent the signal peptide
CC and an N-terminal fragment of a secreted protein. The nucleic acid
CC sequences can be used for producing secreted human gene products. They
CC can also be used to develop products for diagnosis and therapy. The
CC proteins obtained may have cytokine activity, cell
CC proliferation/differentiation activity, haematopoiesis regulating
CC activity, tissue growth regulating activity, reproductive hormone
CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, tumour inhibition activity or other activities. The products
CC can be used in forensic, gene therapy and chromosome mapping procedures.
CC The sequences can also be used for obtaining corresponding promoter
CC sequences. The nucleic acids encoding the signal peptide can be used for
CC directing extracellular secretion of a polypeptide or the insertion of a
CC polypeptide into a membrane, or importing a polypeptide into a cell. The
CC present sequence represents a 5' EST from an example of the present
CC invention

XX Sequence 847 BP; 257 A; 178 C; 162 G; 244 T; 0 U; 6 Other;

Query Match 97.7%; Score 623.4; DB 2; Length 847;
Best Local Similarity 99.1%; Pred. No. 2.7e-180;
Matches 633; Conservative 4; Mismatches 1; Indels 1; Gaps 1;

```
OY 1 ATGTTGGGCTGCTCTTTTCTGGTGAAGTGCATTCATGCTGAAGTCTGTCACACAGGT 60
DB 32 ATGTTGGGCTGCTCTTTTCTGGTGAAGTGCATTCATGCTGAAGTCTGTCACACAGGT 91
OY 61 GCAGAAATGCTTTAAAGTGAGACTAGTATCAGAACAGCTCTGGGAGATTAAGCATAT 120
DB 92 GCAGAAATGCTTTAAAGTGAGACTAGTATCAGAACAGCTCTGGGAGATTAAGCATAT 151
OY 121 GCCTGGGATACCAATGAAGATACCTCTCAAGCGATGGTAGCTTTCTCCATGAGAAA 180
DB 152 GCCTGGGATACCAATGAAGATACCTCTCAAGCGATGGTAGCTTTCTCCATGAGAAA 211
OY 181 GTTCCCAACAGAGAAAGCAAGAAATTTCCCATGTCTACTTTGCAATGTAACCCAGAG 240
DB 212 GTTCCCAACAGAGAAAGCAAGAAATTTCCCATGTCTACTTTGCAATGTAACCCAGAG 271
OY 241 GTATCATTTCTGTTGTGGTTACAGACCTTCAAAAAATCAGACCCCTTCTGCTGTGAG 300
DB 272 GTATCATTTCTGTTGTGGTTACAGACCTTCAAAAAATCAGACCCCTTCTGCTGTGAG 331
OY 301 GTGCAATCAGCCATGAAGATGAACAGAACCGGATCAAGATGCTTTCTTAATGAC 360
DB 332 GTGCAATCAGCCATGAAGATGAACAGAACCGGATCAAGATGCTTTCTTAATGAC 391
OY 361 CAAACTCTGGAATTTTAAAAATCCCTTCACACTTGCAACCCAGTGAAGCCCATCTG 420
DB 392 CAAACTCTGGAATTTTAAAAATCCCTTCACACTTGCAACCCAGTGAAGCCCATCTG 451
OY 421 CCATCTGATTATTAATTTGGTNGATTAATTTGATCATCATAGTTGCAATTGCACTA 480
DB 452 GCCATCTGATTATTAATTTGGTNGATTAATTTGATCATCATAGTTGCAATTGCACTA 511
OY 481 CTGATTTATCAGGATCTGGCAACGTAGAAGAAAGAAAGAACCATCTGAAGTGAT 540
DB 512 CTGATTTATCAGGATCTGGCAACGTADARAAAGAAAGAACCATCTGAAGTGAT 571
```

```
OY 541 GACGCTGAAGATTAAGTGTGAAGAAACATGATCACAATGAAATGGCATCCCTGTATCCC 600
DB 572 GACGCTGAARATTAAGTGTGAAGAAACATGATCACAATGAAATGGCATCCCTGTATCCC 631
OY 601 CTGACATGAAGAGG-CGGCATATTAATGATGCTTCATG 638
DB 632 CTGACATGAAGAGGAGGCATATTAATGATGCTTCATG 670
```

RESULT 229

AAH98224/c
ID AAH98224 standard; cDNA; 1365 BP.

AC AAH98224;

DT 12-OCT-2001 (first entry)

DE Human EST-derived coding sequence SEQ ID NO: 81.

XX Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;

XX tomato; monkey; dog; sea urchin; expressed sequence tag; EST;

XX diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;

XX gene therapy; nutrition; ss.

OS Homo sapiens.

XX WO200154477-A2.

XX 02-AUG-2001.

XX 25-JAN-2001; 2001WO-US002687.

XX 25-JAN-2000; 2000US-00491404.

XX 17-JUL-2000; 2000US-00617746.

XX 03-AUG-2000; 2000US-00631451.

XX 15-SEP-2000; 2000US-00663870.

XX WPI; 2001-476164/51.

XX P-PSDB; AAM23565.

PT Isolated polypeptide for treatment of diseases, diagnostics, raising

PT antibodies and research use.

XX Claim 1; Page 234; 1275pp; English.

XX The present invention provides the protein and coding sequences of novel

XX proteins from a variety of organisms, including human, dog, cat, horse,

XX cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea

XX urchin and tomato. These were derived from expressed sequence tags (ESTs)

XX from the organism of interest. They can be used in diagnostics,

XX forensics, gene mapping, identification of mutations, to assess

XX biodiversity and for nutritional purposes. The present sequence is a cDNA

XX of the invention

XX Sequence 1365 BP; 416 A; 244 C; 257 G; 448 T; 0 U; 0 Other;

Query Match 96.6%; Score 616; DB 4; Length 1365;
Best Local Similarity 99.7%; Pred. No. 6.2e-178;
Matches 638; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

```
OY 1 ATGTTGGGCTGCTCTTTTCTGGTGAAGTGCATTCATGCTGAAGTCTGTCACACAGGT 60
DB 1335 ATGTTGGGCTGCTCTTTTCTGGTGAAGTGCATTCATGCTGAAGTCTGTCACACAGGT 1276
OY 61 GCAGAAATGCTTTAAAGTGAGACTAGTATCAGAACAGCTCTGGGAGATTAAGCATAT 120
DB 1275 GCAGAAATGCTTTAAAGTGAGACTAGTATCAGAACAGCTCTGGGAGATTAAGCATAT 1216
```

| | | | |
|----|------|--|------|
| QY | 121 | GCCTGGGATACCAATGAAGATACCTCTTCAAGCGATGGTAGCTTTCTCCATGAGAAA | 180 |
| | | | |
| Db | 1215 | GCCTGGGATACCAATGAAGATACCTCTTCAAGCGATGGTAGCTTTCTCCATGAGAAA | 1156 |
| QY | 181 | GTTTCCCAACAGAGAACCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCCAGAGG | 240 |
| | | | |
| Db | 1155 | GTTTCCCAACAGAGAACCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCCAGAGG | 1098 |
| QY | 241 | GTATCATTTCTGTTTGTGTTACAGACCCCTTCAAAAAATCACACCCCTTCTGCTTTGAG | 300 |
| | | | |
| Db | 1095 | GTATCATTTCTGTTTGTGTTACAGACCCCTTCAAAAAATCACACCCCTTCTGCTTTGAG | 1038 |
| QY | 301 | GTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACAATGCCCTTTCTAATGAC | 360 |
| | | | |
| Db | 1035 | GTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACAATGCCCTTTCTAATGAC | 976 |
| QY | 361 | CAAACTCTGAATTTTAAAAATCCCTTCCACACTTGACCAACCCATGGACCACTCTGTG | 420 |
| | | | |
| Db | 975 | CAAACTCTGAATTTTAAAAATCCCTTCCACACTTGACCAACCCATGGACCACTCTGTG | 916 |
| QY | 421 | CCCATCTGATTATATATTTGTGTGATATTTTCATCATCATAGTTGCAATGCACTA | 480 |
| | | | |
| Db | 915 | CCCATCTGATTATATATTTGTGTGATATTTTCATCATCATAGTTGCAATGCACTA | 856 |
| QY | 481 | CTGATTTTATCAGGACTCTGGCAAGTAGAAGAAACAAGAACCATCTGAAGTGAT | 540 |
| | | | |
| Db | 855 | CTGATTTTATCAGGACTCTGGCAAGTAGAAGAAACAAGAACCATCTGAAGTGAT | 796 |
| QY | 541 | GACGCTGAAG-ATAAGTGTGAAAAATGATCACAATTGAAAAATGCAATCCCTCTGATCC | 599 |
| | | | |
| Db | 795 | GACGCTGAAGATAAGTGTGAAAAATGATCACAATTGAAAAATGCAATCCCTCTGATCC | 736 |
| QY | 600 | CTTGACATGAAGG- GGGCATATTAATGATGCCCTTCATG | 638 |
| | | | |
| Db | 735 | CTTGACATGAAGGAGGGCATATTAATGATGCCCTTCATG | 696 |

| | |
|--------|---|
| RESULT | 230 |
| ID | AAK97957 |
| ID | AAK97957 standard; DNA, 1356 BP. |
| XX | |
| AC | AAK97957; |
| XX | |
| DT | 17-SBP-1999 (first entry) |
| XX | |
| DE | Human secreted protein gene 42. |
| XX | |
| KW | Human; secreted protein; cancer; tumour; developmental abnormality; |
| KW | fetal deficiency; blood disorder; immune system disorder; inflammation; |
| KW | autoimmune disease; allergy; Alzheimer's disease; cognitive disorder; |
| KW | schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder; |
| KW | atherosclerosis; diabetes; cardiovascular disorder; kidney disorder; |
| KW | digestive disorder; endocrine disorder; infection; AIDS; ss. |
| XX | |
| OS | Homo sapiens. |
| XX | |
| PN | WO931117-A1. |
| XX | |
| PD | 24-JUN-1999. |
| PX | |
| PF | 17-DEC-1998; 98WO-US027059. |
| XX | |
| PR | 18-DEC-1997; 97US-0068006P. |
| PR | 18-DEC-1997; 97US-0068007P. |
| PR | 18-DEC-1997; 97US-0068008P. |
| PR | 18-DEC-1997; 97US-0068053P. |
| PR | 18-DEC-1997; 97US-0068054P. |
| PR | 18-DEC-1997; 97US-0068057P. |
| PR | 18-DEC-1997; 97US-0068064P. |
| PR | 18-DEC-1997; 97US-0070923P. |
| PR | 19-DEC-1997; 97US-0068169P. |
| PR | 19-DEC-1997; 97US-0068365P. |
| PR | 19-DEC-1997; 97US-0068367P. |

PR 19-DEC-1997; 97US-0068368P.
PR 19-DEC-1997; 97US-0068369P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Moore PA, Ruben SM, Carter KC, Shi Y, Rosen CA, Soppet DR;
PI Kyaw H, Wei Y, Florence K, Duan RD, Florence C, Greene JM, Feng P;
PI Ferrie AM, Yu G, Janat F, Ni J;
XX
XX
DR MPI; 1999-418749/35.
DR P-PSDB; AAY36265.

New isolated human genes encoding secreted polypeptides.

Claim 1; Page 296-297; 537pp; English.

AA97916 to AA98029 represent 110 isolated human secreted protein genes. AA936224 to AA936727 represent the secreted proteins encoded by the 110 human genes. The genes and their corresponding secreted polypeptides are useful for preventing, treating or ameliorating medical conditions, e.g. by protein or gene therapy. Also pathological conditions can be diagnosed by determining the amount of the new polypeptides in a sample or by determining the presence of mutations in the new genes. Specific uses are described for each of the 110 genes, based on which tissues they are most highly expressed in, and include developing products for the diagnosis or treatment of cancer, tumours, developmental abnormalities and foetal deficiencies, blood disorders, diseases of the immune system, autoimmune diseases, inflammation, allergies, Alzheimer's and cognitive disorders, schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders, atherosclerosis, diabetes, cardiovascular disorders, kidney disorders, digestive/endocrine disorders, infections and AIDS. The polypeptides are also useful for identifying their binding partners. The sequences given in AA97907 to AA97915 and AA936223 are used in the exemplification of the present invention.

Sequence 1356 BP; 460 A; 252 C; 240 G; 403 T; 0 U; 1 Other;

Query Match 96.48; Score 615; DB 2; Length 1356;

| | | | |
|---------------------------|-------|---------------------|-------------------|
| Best Local Similarity | 99.7% | Pred. No. 1.3e-177; | |
| Matches 637; Conservative | 0; | Mismatches 0; | Indels 2; Gaps 2; |

| | | | |
|----|-----|--|-----|
| OY | I | ANGTGTGGCTGCTCTTTTTCGTGTGACTGCGCATTCATGCTGAACCTCTGTCAACCAGST | 60 |
| Dp | 18 | ANGTGTGGCTGCTCTTTTTCGTGTGACTGCGCATTCATGCTGAACCTCTGTCAACCAGST | 77 |
| OY | 61 | GCGAAAAATGCTTTAAAGTGAGA CTAGTATCAGAACAGCTCTGGAGATAAAGCATAT | 120 |
| Dp | 78 | GCGAAAAATGCTTTAAAGTGAGACTAGTATCAGAACAGCTCTGGAGATAAAGCATAT | 137 |
| OY | 121 | GCCCTGGATACCAATGAGAATACCTCTTCAAGCGATGTAGCTTCTCCATGAGAAA | 180 |
| Dp | 138 | GCCCTGGATACCAATGAGAATACCTCTTCAAGCGATGTAGCTTCTCCATGAGAAA | 197 |
| OY | 181 | GTTTCCCAACAGAGAACCAACAATAATTCCCATGTCCTACTTTGCAATGTAAACCGAGAG | 240 |
| Dp | 198 | GTTTCCCAACAGAGAACCAACAATAATTCCCATGTCCTACTTTGCAATGTAAACCGAG-A | 256 |
| OY | 241 | GTAATCATTCGTGTTGTGTGTTACAGACCCTTCAAAAAATCACACCCTTCTGCTGTGAG | 300 |
| Dp | 257 | GTAATCATTCGTGTTGTGTGTTACAGACCCTTCAAAAAATCACACCCTTCTGCTGTGAG | 316 |
| OY | 301 | GTGCAATCAGCCATPAAGATGAACAAGAACCGGATCAACAATGCCCTTCTTCTAAATGAC | 360 |
| Dp | 317 | GTGCAATCAGCCATPAAGATGAACAAGAACCGGATCAACAATGCCCTTCTTCTAAATGAC | 376 |
| OY | 361 | CAAACTGTGAATTTTTTAAAAATCCCTTCACACTTGCACCCACCATGAGCCCATCTGTG | 420 |
| Dp | 377 | CAAACTGTGAATTTTTTAAAAATCCCTTCACACTTGCACCCACCATGAGCCCATCTGTG | 436 |
| OY | 421 | CCCATCTGGAATTATATATTGTGTGATATTTGCATCATCATAGTTGCAATTGCACTA | 480 |
| Dp | 437 | CCCATCTGGAATTATATATTGTGTGATATTTGCATCATCATAGTTGCAATTGCACTA | 496 |

QY 481 CTGATTTTATCAGGATCTGGCAACGTGAGAGAAACAAGACCATCTGAAGTGAT 540
CC |||||||
CC 497 CTGATTTTATCAGGATCTGGCAACGTGAGAGAAACAAGACCATCTGAAGTGAT 556
CC |||||||
QY 541 GACGCTGAAGATAGTGTGAAAACATGATCACAATTGAAATGGCATCCCTCTGATCCC 600
CC |||||||
DB 557 GACGCTGAAGATAGTGTGAAAACATGATCACAATTGAAATGGCATCCCTCTGATCCC 616
CC |||||||
QY 601 CTGACATGAAGGG-GGGCATATTATGATGCTTCATG 638
CC |||||||
DB 617 CTGACATGAAGGGGAGGCATATTATGATGCTTCATG 655
CC |||||||
RESULT 231
ADA56545
ID ADA56545 standard; DNA; 1356 BP.
XX
AC ADA56545;
XX
DT 20-NOV-2003 (first entry)
XX
DE Gene encoding human secreted protein #269.
XX
KW immunosuppressive; antiinflammatory; antiasthmatic; antiallergic;
KW cyostatic; cerebroprotective; neuroprotective; nootropic;
KW cardiovascular; antiarteriosclerotic; gene therapy;
KW human secreted protein; immune disorder; inflammation;
KW respiratory disorder; cancer; CNS disorder; neurodegenerative disorders;
KW inflammatory bowel disease; nephritis; Crohn's disease; asthma; allergy;
KW multiple sclerosis; ischaemic brain injury; Parkinson's disease;
KW Alzheimer's disease; atherosclerosis; myocarditis; chromosome mapping;
KW triple helix formation; antisense gene therapy; forensic biology; ds;
KW gene.
XX
OS Homo sapiens.
XX
PN WO2002102994-A2.
XX
PD 27-DEC-2002.
XX
PF 19-MAR-2002; 2002WO-US008278.
XX
PR 21-MAR-2001; 2001US-0277340P.
PR 19-JUL-2001; 2001US-0306171P.
PR 13-NOV-2001; 2001US-0331287P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM;
XX
DR WPI; 2003-167512/16.
DR P-PSDB; ADA57438.
XX
PT New human secreted polypeptides and polymucleotides, useful for
PT diagnosing, treating or preventing e.g. immune disorders, inflammatory
PT conditions, respiratory disorders, cancers, CNS disorders, or
PT neurodegenerative disorders.
XX
PS Claim 21; SEQ ID NO 734; 1754bp; English.
XX
CC The invention relates to 592 new human secreted polypeptides useful for
CC diagnosing, treating or preventing e.g. immune disorders, inflammatory
CC conditions, respiratory disorders, cancers, CNS disorders, or
CC neurodegenerative disorders, or polypeptides comprising an amino acid
CC sequence at least 95% identical to the new sequences. The polypeptides,
CC antibodies or antibody fragments that bind to the polypeptides, nucleic
CC acids encoding the polypeptides, agonists or antagonists that binds to
CC the polypeptide, are useful in preparing diagnostic or pharmaceutical
CC compositions for diagnosing, treating or preventing an e.g. immune
CC disorders, inflammatory conditions (e.g. inflammatory bowel disease,
CC nephritis or Crohn's disease), respiratory disorders (e.g. asthma and
CC allergy), cancers (e.g. gastric, ovarian or lung cancer), CNS disorders
CC (e.g. multiple sclerosis or ischaemic brain injury), neurodegenerative

CC disorders (e.g. Parkinson's disease or Alzheimer's disease), and
CC cardiovascular disorders (e.g. atherosclerosis or myocarditis). The
CC polymucleotides are useful for chromosome identification, chromosome
CC mapping, for controlling gene expression through triple helix formation
CC or antisense DNA or RNA, in gene therapy, for identifying individuals
CC from minute biological samples, in forensic biology, and as hybridization
CC probes. The polypeptides are useful for as molecular weight markers on
CC sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE)
CC gels, to raise antibodies, for testing biological activities, and for
CC treating or preventing neural disorders, immune system disorders,
CC muscular, reproductive, gastrointestinal, pulmonary, cardiovascular,
CC renal, proliferative and/or cancerous diseases. This sequence corresponds
CC to a gene encoding one of the polypeptide of the invention. Note: The
CC sequence data for this patent did form part of the printed specification,
CC but was obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 1356 BP; 460 A; 252 C; 240 G; 403 T; 0 U; 1 Other;
XX
Query Match 96.4%; Score 615; DB 7; Length 1356;
Best Local Similarity 99.7%; Pred. No. 1.3e-177;
Matches 637; Conservative 0; Mismatches 0; Indels 2; Gaps 2;
QY 1 ATGTTGGGCTGCTCTTTTCTGTTGAGTCCCATTCATGCTGAAGCTCTGTCAACCAAGT 60
DB 18 ATGTTGGGCTGCTCTTTTCTGTTGAGTCCCATTCATGCTGAAGCTCTGTCAACCAAGT 77
QY 61 GCAGAAATGCTTTTAAAGTGAGACTTATGATCAGAACAGCTCTGGAGATTAAGCATAT 120
DB 78 GCAGAAATGCTTTTAAAGTGAGACTTATGATCAGAACAGCTCTGGAGATTAAGCATAT 137
QY 121 GCCTGGATACCAATGAGATACCTCTTCAAGCGATGAGTCTTCTTCATGAGAAA 180
DB 138 GCCTGGATACCAATGAGATACCTCTTCAAGCGATGAGTCTTCTTCATGAGAAA 197
QY 181 GTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCTTCTTGCATGTAAACCCAGAG 240
DB 198 GTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCTTCTTGCATGTAAACCCAGAG -G 256
QY 241 GTATCATCTGTTGTGTGTACAGACCTTCAAAAATGACACCTTCTGCTGTAG 300
DB 257 GTATCATCTGTTGTGTGTGTACAGACCTTCAAAAATGACACCTTCTGCTGTAG 316
QY 301 GTGCAATCAGCCATAAGATGAAAGAACCGGATCAACATGCTTCTTCTTAATGAC 360
DB 317 GTGCAATCAGCCATAAGATGAAAGAACCGGATCAACATGCTTCTTCTTAATGAC 376
QY 361 CAAACTCTGGAATTTTAAATCCCTTCACACTTGACCAACCCATGACCATCTGTG 420
DB 377 CAAACTCTGGAATTTTAAATCCCTTCACACTTGACCAACCCATGACCATCTGTG 436
QY 421 CCCATCTGATTTATTAATTTGTGTGATTTTGCATCATCATAGTTGCAATGCACTA 480
DB 437 CCCATCTGATTTATTAATTTGTGTGATTTTGCATCATCATAGTTGCAATGCACTA 496
QY 481 CTGATTTTATCAGGATCTGGCAACGTGAGAGAAACAAGACCATCTGAAGTGAT 540
DB 497 CTGATTTTATCAGGATCTGGCAACGTGAGAGAAACAAGACCATCTGAAGTGAT 556
QY 541 GACGCTGAAGATAGTGTGAAAACATGATCACAATTGAAATGGCATCCCTCTGATCCC 600
DB 557 GACGCTGAAGATAGTGTGAAAACATGATCACAATTGAAATGGCATCCCTCTGATCCC 616
QY 601 CTGACATGAAGGG-GGGCATATTATGATGCTTCATG 638
DB 617 CTGACATGAAGGGGAGGCATATTATGATGCTTCATG 655
RESULT 232
ADA40381
ID ADA40381 standard; cDNA; 1356 BP.
XX
AC ADA40381;

XX 20-NOV-2003 (first entry)
XX Human secreted protein encoding cDNA.
DB
XX
XX Human; secreted protein; cancer; hyperproliferative disorder;
KM rheumatoid arthritis; autoimmune disorder; haematopoietic disorder;
KM anaemia; allergic reaction; asthma; cardiovascular disorder;
KM wound healing; cytostatic; immunosuppressive; nootropic; neuroprotective;
KM antiviral; anti-allergic; hepatotropic; antidiabetic; anti-inflammatory;
KM vulnerable; cardiac; gene therapy; ss.
XX
OS Homo sapiens.
XX
PN WO2002102993-A2.
XX
PD 27-DEC-2002.
XX
PF 19-MAR-2002; 2002WO-US008123.
XX
PR 21-MAR-2001; 2001US-0277340P.
PR 19-JUL-2001; 2001US-0306171P.
PR 13-NOV-2001; 2001US-0331287P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM;
XX
DR WPI; 2003-175238/17.
XX
XX New human secreted proteins and nucleic acid molecules, useful for
PT preparing a diagnostic or pharmaceutical composition for diagnosing,
PT preventing or treating cancer or other hyperproliferative disorder,
PT asthma, allergies or AIDS.
XX
XX Claim 9; SEQ ID NO 763; 3205bp; English.
XX
XX The invention relates to novel genes ADA39629-ADA40565 and proteins
CC ADA40566-ADA41501 for human secreted proteins, useful for preventing,
CC treating or ameliorating medical conditions e.g. by protein or gene
CC therapy. The polypeptides, nucleic acid molecules, antibodies or their
CC fragments, and agonists or antagonists that bind to the polypeptide are
CC useful for preparing a diagnostic or pharmaceutical composition for
CC diagnosing or treating cancer or other hyperproliferative disorder. The
CC polypeptides and nucleic acid molecules are also useful for detecting,
CC preventing, diagnosing, prognosticating, treating or ameliorating cancer
CC or other hyperproliferative disorders including neoplasms, autoimmune
CC disorders (e.g. diabetes, rheumatoid arthritis, systemic lupus
CC erythematosus, multiple sclerosis, autoimmune thyroiditis or haemolytic
CC anaemia), haematopoietic or haematological disorders (e.g. anaemia,
CC thrombocytopenia), allergic reactions including asthma or eczema,
CC inflammatory disorders (e.g. ischaemia-reperfusion injury, inflammatory
CC bowel disease or Crohn's disease), neurodegenerative disorders (e.g.
CC Alzheimer's disease or Parkinson's disease), cardiovascular disorders
CC (e.g. atherosclerosis, myocarditis), infectious diseases (bacterial,
CC fungal or viral infections including HIV/AIDS), or wound healing and
CC disorders of epithelial cell proliferation. The nucleic acids are also
CC useful for chromosome identification, radiation hybrid mapping or long-
CC range restriction mapping, as molecular weight markers, or as
CC hybridization or diagnostic probes. The polypeptides and antibodies are
CC useful for providing immunological probes for differential identification
CC of the tissues immunohistochemistry assays. Note: The sequence data for
CC this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 1356 BP; 460 A; 252 C; 240 G; 403 T; 0 U; 1 Other;
SQ
Query Match 96.4%; Score 615; DB 7; Length 1356;
Best Local Similarity 99.7%; Pred. No. 1.3e-177;
Matches 637; Conservative 0; Mismatches 0; Indels 2; Gaps 2;
QY 1 ATGTTGGCTGCTCTTTTCTGTGACGACATTCATGCTGAAGTCTGTCAACAGGT 60

DB 18 ATGTTGGCTGCTCTTTTCTGTGACGACATTCATGCTGAAGTCTGTCAACAGGT 77
QY 61 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 120
DB 78 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 137
QY 121 GCCTGGATTAACAATGAAGATACTCTTCAAGCGATGAGCTTTCTCCATGAGAAAA 180
DB 138 GCCTGGATTAACAATGAAGATACTCTTCAAGCGATGAGCTTTCTCCATGAGAAAA 197
QY 181 GTTCCCAACAGAGAACAGAAATTTCCATGCTCTTCTTCAATGTAAACCCAGAG 240
DB 198 GTTCCCAACAGAGAACAGAAATTTCCATGCTCTTCTTCAATGTAAACCCAGAG -G 256
QY 241 GTATCATTCGTGTTTGTGTTACAGACCTTCAAAAAATCACACCTTCTGCTGTAG 300
DB 257 GTATCATTCGTGTTTGTGTTACAGACCTTCAAAAAATCACACCTTCTGCTGTAG 316
QY 301 GTGCAATCAGCCATTAGAATGACAGAACCGGATCAAAATGCTTTCTTAATGAC 360
DB 317 GTGCAATCAGCCATTAGAATGACAGAACCGGATCAAAATGCTTTCTTAATGAC 376
QY 361 CAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACACCCATGAGACCATCTGTG 420
DB 377 CAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACACCCATGAGACCATCTGTG 436
QY 421 CCCATCTGATTTATTTATTTGTTGATATTTTGCATCATCATAGTTGCAATTGCACTA 480
DB 437 CCCATCTGATTTATTTATTTGTTGATATTTTGCATCATCATAGTTGCAATTGCACTA 496
QY 481 CTGATTTTATCAGGATCTGCAACGTAGAGAAAGAACAAACCATCTGAAGTGAT 540
DB 497 CTGATTTTATCAGGATCTGCAACGTAGAGAAAGAACAAACCATCTGAAGTGAT 556
QY 541 GAGCTGAAGTAAGTGTGAAGAAATCATGATCAATGAAATGCGATCCCTCTGATCCC 600
DB 557 GAGCTGAAGTAAGTGTGAAGAAATCATGATCAATGAAATGCGATCCCTCTGATCCC 616
QY 601 CTGACATGAAGGG-GGGCATTTATATGATGCTTCATG 638
DB 617 CTGACATGAAGGAGGGGCGCATTTATATGATGCTTCATG 655
RESULT 233
ADAL1594
ID ADAL1594 standard; DNA; 1356 BP.
XX
XX ADAL1594;
AC
XX
DT 06-NOV-2003 (first entry)
XX
DB Human cDNA encoding a novel secreted protein, SEQ ID NO 122.
XX cancer; inflammation; immune disorder; neurological disorder;
KM blood clotting disorder; food additive; food preservative;
KM storage capability; fat content; nutritional component; ds; gene; human.
XX
OS Homo sapiens.
XX
XX US2003055236-A1.
PN
XX
PD 20-MAR-2003.
XX
PF 14-MAR-2002; 2002US-00097065.
XX
XX 18-DEC-1997; 97US-0068006P.
PR 18-DEC-1997; 97US-0068007P.
PR 18-DEC-1997; 97US-0068008P.
PR 18-DEC-1997; 97US-0068053P.
PR 18-DEC-1997; 97US-0068054P.
PR 18-DEC-1997; 97US-0068057P.
PR 18-DEC-1997; 97US-0068064P.

PR 18-DEC-1997; 97US-0070923P.
PR 19-DEC-1997; 97US-0068169P.
PR 19-DEC-1997; 97US-0068365P.
PR 19-DEC-1997; 97US-0068367P.
PR 19-DEC-1997; 97US-0068368P.
PR 19-DEC-1997; 97US-0068369P.
PR 17-DEC-1998; 98WO-US027059.
PR 17-JUN-1999; 99US-00334595.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Moore PA, Ruben SM, Carter KC, Shi Y, Rosen CA, Soppet DR,
PI Kyaw H, Wei Y, Florence KA, Duan DR, Florence C, Greene JM, Feng P,
PI Ferrie AM, Yu G, Janat F, Ni J;
XX
DR WPI; 2003-567105/53.
DR P-PSDB; ADA11718.
XX
PT New secreted HKABT24 nucleic acid molecules and polypeptides, useful for
PT preventing, treating, or ameliorating a medical condition, such as
PT cancer, inflammation, immune disorders, neurological and blood clotting
PT disorders.
XX
PS Claim 1; SEQ ID NO 122; 118bp; English.
XX

CC The invention relates to an isolated HKABT24 nucleic acid molecule. The
CC polypeptides, nucleic acids and antibodies are useful for diagnosing a
CC pathological condition or a susceptibility to a pathological condition,
CC for preventing, treating, or ameliorating a medical condition, such as
CC cancer, inflammation and other immune disorders, neurological and blood
CC clotting disorders. The nucleic acids are also useful for chromosome
CC identification, radiation hybrid mapping or long-range restriction
CC mapping. The polypeptides and antibodies are useful for providing
CC immunohistochemistry assays. The polypeptide, polynucleotide, agonist or
CC antagonist may also be used as a food additive or preservative to
CC increase or decrease storage capabilities, fat content or other
CC nutritional components. The present sequence represents cDNA encoding a
CC novel human secreted protein. Note: The sequence data for this patent did
CC not form part of the printed specification but was obtained in electronic
CC format directly from USPTO at
CC seqdata.uspto.gov.uk/sequence.html?DocID=20030055236.
XX
SQ Sequence 1356 BP; 460 A; 252 C; 240 G; 403 T; 0 U; 1 Other;

Query Match 96.4%; Score 615; DB 8; Length 1356;
Best Local Similarity 99.7%; Pred. No. 1.3e-177;
Matches 637; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

QY 1 ATGTTGTGCTGCTCTTTTCTGTGTAAGTCCATTCATGCTGAAGCTCTGCAACGAGT 60
DB |||||||
18 ATGTTGTGCTGCTCTTTTCTGTGTAAGTCCATTCATGCTGAAGCTCTGCAACGAGT 77
QY 61 GCAGAAATGCTTTTAAAGTGAGACTTATGATCAGACAGCTCTGGAGATAAAGCATAT 120
DB |||||||
78 GCAGAAATGCTTTTAAAGTGAGACTTATGATCAGACAGCTCTGGAGATAAAGCATAT 137
QY 121 GCCTGGGATACCAATGAAGATACCTCTCAAGCGATGTAAGCTTTCTCCATGAGAAA 180
DB |||||||
138 GCCTGGGATACCAATGAAGATACCTCTCAAGCGATGTAAGCTTTCTCCATGAGAAA 197
QY 181 GTTCCCAACAGAGAGCAACAGAAATTTCCATGCTCTACTTTGCAATGTAACCCAGAG 240
DB |||||||
198 GTTCCCAACAGAGAGCAACAGAAATTTCCATGCTCTACTTTGCAATGTAACCCAGAG-G 256
QY 241 GTATCATCTGTTGTGTTACAGACCTTCAAAAATCACACCTTCTGCTGTAG 300
DB |||||||
257 GTATCATCTGTTGTGTTACAGACCTTCAAAAATCACACCTTCTGCTGTAG 316
QY 301 GTGCAATCAGCCATAGATGAACAGACCGGATCAACAATGCTCTTTCTAATATAC 360
DB |||||||
317 GTGCAATCAGCCATAGATGAACAGACCGGATCAACAATGCTCTTTCTAATATAC 376

QY 361 CAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACACCACCAGTGAACCCATCTG 420
DB |||||||
377 CAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACACCACCAGTGAACCCATCTG 436
QY 421 CCCATCTGATTATTAATTTGTTGATTAATTTTGCATCATCATAGTTGCAATTGCACTA 480
DB |||||||
437 CCCATCTGATTATTAATTTGTTGATTAATTTTGCATCATCATAGTTGCAATTGCACTA 496
QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAAGTGAT 540
DB |||||||
497 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAAGTGAT 556
QY 541 GAGCTGAAGATTAAGTGAAGAAACATGATCACAATTTGAAATGCGATCCCTGATCCC 600
DB |||||||
557 GAGCTGAAGATTAAGTGAAGAAACATGATCACAATTTGAAATGCGATCCCTGATCCC 616
QY 601 CTGACATGAAGGG-GGGCATATTATGATGCTTCATG 638
DB |||||||
617 CTGACATGAAGGGGAGGCGCATATTATGATGCTTCATG 655

RESULT 234

ADD37752
ID ADD37752 standard; cDNA, 1356 BP.

XX ADD37752;
AC 15-JAN-2004 (first entry)
XX

XX Human secreted protein encoding sequence #234.

XX human secreted protein; Antiallergic; Antiinflammatory; Antibacterial;
KW Anti-HIV; Cytostatic; Immunosuppressive; Hemostatic; ss.

XX Homo sapiens.

XX WO200290526-A2.

XX 14-NOV-2002.

XX 19-MAR-2002; 2002WO-US008279.

XX 21-MAR-2001; 2001US-0277340P.

XX 19-JUL-2001; 2001US-0306171P.

XX 13-NOV-2001; 2001US-0331287P.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM;

XX WPI; 2003-140218/13.

PT New human secreted proteins and nucleic acid molecules, useful for
PT preparing a diagnostic or pharmaceutical composition for diagnosing or
PT treating allergic or asthmatic disorders, or related immediate
PT hypersensitivity disorders.

PS Claim 7; SEQ ID NO 234; 1323bp; English.

XX The present invention relates to an isolated polypeptide or human
XX secreted protein. The polypeptides, nucleic acid molecules, antibodies or
XX their fragments, and agonists or antagonists that bind are useful for
XX preparing a diagnostic or pharmaceutical composition for diagnosing or
XX treating allergic or asthmatic disorders. The polypeptide is also useful
XX for identifying a binding partner by contacting the polypeptide with a
XX binding partner, and determining whether the binding partner increases or
XX decreases the activity of the polypeptide. The polypeptides and nucleic
XX acid molecules are also useful for detecting, preventing, diagnosing,
XX prognosticating, treating or ameliorating inflammatory disorders
XX neoplastic diseases, wound healing and disorders of epithelial cell
XX proliferation, immune disorders, cardiovascular disorders, blood-related
XX disorders, infectious diseases, endocrine disorders, or gastrointestinal
XX disorders. The nucleic acids are also useful for chromosome

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OM nucleic - nucleic search, using sw model

Run on: June 6, 2004, 09:17:55 ; Search time 2500.23 Seconds
(without alignments)
11060.139 Million cell updates/sec

Title: US-09-989-724-386_COPY_7_644

Perfect score: 638
Sequence: 1 atgttgctgctgctcttctt.....atattaatgatgccttcacg 638

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 30

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 80%
Maximum Match 100%
Listing first 6500 summaries

Database : GenEmbl:*

- 1: gb_ba:*
- 2: gb_htg:*
- 3: gb_in:*
- 4: gb_om:*
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- 6: gb_pat:*
- 7: gb_ph:*
- 8: gb_pl:*
- 9: gb_pr:*
- 10: gb_ro:*
- 11: gb_sts:*
- 12: gb_sy:*
- 13: gb_un:*
- 14: gb_vl:*
- 15: em_ba:*
- 16: em_fun:*
- 17: em_hum:*
- 18: em_in:*
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- 27: em_sts:*
- 28: em_un:*
- 29: em_vl:*
- 30: em_htg_hum:*
- 31: em_htg_inv:*
- 32: em_htg_other:*
- 33: em_htg_mus:*
- 34: em_htg_pln:*
- 35: em_htg_rod:*
- 36: em_htg_mam:*
- 37: em_htg_vrt:*
- 38: em_sy:*
- 39: em_htgo_hum:*
- 40: em_htgo_mus:*
- 41: em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|------------|--------------------|
| 1 | 638 | 100.0 | 1346 | 6 AR252633 | AR252633 Sequence |
| 2 | 638 | 100.0 | 1346 | 6 AX403499 | AX403499 Sequence |
| 3 | 638 | 100.0 | 1346 | 6 AX464348 | AX464348 Sequence |
| 4 | 638 | 100.0 | 1346 | 9 AY359060 | AY359060 Homo sapi |
| 5 | 627 | 98.3 | 666 | 6 AX083382 | AX083382 Sequence |
| 6 | 627 | 98.3 | 1347 | 6 AX083392 | AX083392 Sequence |
| 7 | 627 | 98.3 | 1377 | 9 BC015099 | BC015099 Homo sapi |
| 8 | 627 | 98.3 | 1440 | 9 BC015099 | BC015099 Homo sapi |
| 9 | 627 | 98.3 | 1605 | 9 BC014317 | BC014317 Homo sapi |
| 10 | 626.6 | 98.2 | 1447 | 6 BD205644 | BD205644 97 human |
| 11 | 625.4 | 98.0 | 1345 | 9 AF229179 | AF229179 Homo sapi |
| 12 | 625.4 | 98.0 | 1401 | 6 BD083420 | BD083420 Secreted |
| 13 | 625 | 98.0 | 848 | 6 AR177334 | AR177334 Sequence |
| 14 | 625 | 98.0 | 848 | 6 BD247957 | BD247957 5' ESTs f |
| 15 | 625 | 98.0 | 848 | 6 AR340701 | AR340701 Sequence |
| 16 | 625 | 98.0 | 848 | 6 AR412373 | AR412373 Sequence |
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| 22 | 625 | 98.0 | 848 | 6 BD076775 | BD076775 5' EST of |
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| 24 | 625 | 98.0 | 848 | 6 BD077737 | BD077737 5' EST of |
| 25 | 625 | 98.0 | 848 | 6 BD085880 | BD085880 Rlongatio |
| 26 | 625 | 98.0 | 848 | 6 BD107926 | BD107926 EST and e |
| 27 | 625 | 98.0 | 848 | 6 BD131408 | BD131408 cDNA endo |
| 28 | 625 | 98.0 | 848 | 6 BD139270 | BD139270 Extended |
| 29 | 625 | 98.0 | 848 | 6 BD203799 | BD203799 5'EST and |
| 30 | 615 | 96.4 | 1356 | 6 BD135300 | BD135300 110 human |

ALIGNMENTS

RESULT 1
AR252633 LOCUS AR252633 1346 bp DNA linear PAT 20-DEC-2002
DEFINITION Sequence 386 from patent US 6478825.
ACCESSION AR252633
VERSION AR252633.1 GI:27300541
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1346)
AUTHORS Winterbottom,J.M., Shimp,L., Boyce,T.M. and Kaes,D.
TITLE Implant, method of making same and use of the implant for the
treatment of bone defects
JOURNAL Patent: US 6478825-A 386 12-NOV-2002;
FEATURES
source location/Qualifiers
1..1346
/organism="unknown"
/mol_type="genomic DNA"

ORIGIN

Query Match 100.0%; Score 638; DB 6; Length 1346;
Best Local Similarity 100.0%; Pred. No. 2.4e-165;
Matches 638; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTTGGCTGCTCTTTTCGAGTGCATTCATGCTGAACCTGTGCAACGAGT 60
DB 7 ATGTTGGCTGCTCTTTTCGAGTGCATTCATGCTGAACCTGTGCAACGAGT 66
QY 61 GCAGAAATGCTTTTAAAGTGAAGTACTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 120

|||||
Db 67 GCAGAAATGCTTTAAAGTGAAGTCTAGTATGAGACAGCTCTGGAGATAAGCATAT 126
Qy 121 GCTGGAGTACCAATGAAGATCTCTCAAGGAGTGTAGCTTTCTCCATGAGAAA 180
Db 127 GCTGGAGTACCAATGAAGATCTCTCAAGGAGTGTAGCTTTCTCCATGAGAAA 186
Qy 181 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCGAGG 240
Db 187 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCGAGG 246
Qy 241 GTATCATTTCTGTTTGTGTGTTACAGACCTTCAAAAATCACACCTTCTGCTGTGAG 300
Db 247 GTATCATTTCTGTTTGTGTGTTACAGACCTTCAAAAATCACACCTTCTGCTGTGAG 306
Qy 301 GTGCAATCAGCCATTAAGATGAAGAACAGAACCGGATCAACATGCTTCTTTAAATGAC 360
Db 307 GTGCAATCAGCCATTAAGATGAAGAACAGAACCGGATCAACATGCTTCTTTAAATGAC 366
Qy 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACACCAACCATGGAACCATCTGTG 420
Db 367 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACACCAACCATGGAACCATCTGTG 426
Qy 421 CCCATCTGATTTATATATTGTTGTTGATATTGTCATCATAGTGTGAATGCACTA 480
Db 427 CCCATCTGATTTATATATTGTTGTTGATATTGTCATCATAGTGTGAATGCACTA 486
Qy 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACCAATCTGAATGAT 540
Db 487 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACCAATCTGAATGAT 546
Qy 541 GACGCTGAAGATAAGTGTGAAAACATGATCACAATGTGAATGGATCCCTCTGATCCC 600
Db 547 GACGCTGAAGATAAGTGTGAAAACATGATCACAATGTGAATGGATCCCTCTGATCCC 606
Qy 601 CTGACATGAAGGGGGCATATTATGATGCTTCATG 638
Db 607 CTGACATGAAGGGGGCATATTATGATGCTTCATG 644

RESULT 2
AX403499 1346 bp DNA linear PAT 14-JUN-2002
LOCUS
DEFINITION Sequence 386 from Patent WO0073454.
ACCESSION AX403499
VERSION AX403499.1 GI:21436987
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE
AUTHORS 1 Ashkenazi, A.J., Baker, K.P., Botstein, D., Desnoyers, L., Batou, D.,
Ferrara, N., Gerber, H., Gerlitsen, M., Goddard, A., Godowski, P.,
Grimaldi, C.J., Gurney, A.L., Kijavich, I., Napier, M.A., Pan, J.,
Paoni, N.P., Roy, M., Stewart, T.A., Tumas, D., Watanabe, C.K.,
Williams, P., Wood, W.I. and Zhang, Z.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding
the same
JOURNAL Patent: WO 0073454-A 386 07-DEC-2000;
Genentech Inc. (US)
FEATURES
source 1. 1346
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
ORIGIN

Query Match 100.0%; Score 638; DB 6; Length 1346;
Best Local Similarity 100.0%; Pred. No. 2.4e-165;
Matches 638; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ATGTGTGCTGCTCTTTTCTGTGACTGCAATCATGTGAACTCTGTCAACAGGT 60

|||||
Db 7 ATGTGTGCTGCTCTTTTCTGTGACTGCAATCATGTGAACTCTGTCAACAGGT 66
Qy 61 GCAGAAATGCTTTAAAGTGAAGTCTAGTATGAGACAGCTCTGGAGATAAGCATAT 120
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Qy 121 GCTGGAGTACCAATGAAGATCTCTCAAGGAGTGTAGCTTTCTCCATGAGAAA 180
Db 127 GCTGGAGTACCAATGAAGATCTCTCAAGGAGTGTAGCTTTCTCCATGAGAAA 186
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Db 187 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCGAGG 246
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Qy 421 CCCATCTGATTTATATATTGTTGTTGATATTGTCATCATAGTGTGAATGCACTA 480
Db 427 CCCATCTGATTTATATATTGTTGTTGATATTGTCATCATAGTGTGAATGCACTA 486
Qy 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACCAATCTGAATGAT 540
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Qy 541 GACGCTGAAGATAAGTGTGAAAACATGATCACAATGTGAATGGATCCCTCTGATCCC 600
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Qy 601 CTGACATGAAGGGGGCATATTATGATGCTTCATG 638
Db 607 CTGACATGAAGGGGGCATATTATGATGCTTCATG 644

RESULT 3
AX464348 1346 bp DNA linear PAT 16-JUL-2002
LOCUS
DEFINITION Sequence 481 from Patent WO0140466.
ACCESSION AX464348
VERSION AX464348.1 GI:21899190
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE
AUTHORS 1 Baker, K.P., Beresini, M., DeForge, L., Desnoyers, L., Filvaroff, B.,
Gao, W.Q., Gerlitsen, M.B., Goddard, A., Godowski, P.J., Gurney, A.L.,
Sherwood, S., Smith, V., Stewart, T.A., Tumas, D., Watanabe, C.K.,
Wood, W.I. and Zhang, Z.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding
the same
JOURNAL Patent: WO 0140466-A 481 07-JUN-2001;
Genentech Inc. (US)
FEATURES
source 1. 1346
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
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ORIGIN

Query Match 100.0%; Score 638; DB 6; Length 1346;
Best Local Similarity 100.0%; Pred. No. 2.4e-165;

| | Matches | 638; | Conservative | 0; | Mismatches | 0; | Indels | 0; | Gaps | 0; |
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| Qy | 1 | ATGTTGTGGCTGCTCTTTT | TTTCTGTGTA | CTGCCATT | CTGA | CTCTGTCA | CCAGGT | 60 | | |
| Db | 7 | ATGTTGTGGCTGCTCTTTT | TTTCTGTGTA | CTGCCATT | CTGA | CTCTGTCA | CCAGGT | 66 | | |
| Qy | 61 | GCAGAAATGCTTTTAAAGT | GAAGCTTAGT | ATCAGAA | CAGCTCTG | GGAGATAA | AGCATAT | 120 | | |
| Db | 67 | GCAGAAATGCTTTTAAAGT | GAAGCTTAGT | ATCAGAA | CAGCTCTG | GGAGATAA | AGCATAT | 126 | | |
| Qy | 121 | GCTTGGGATACCAATGA | AGAACTCTTCA | AAAGGATG | TAGCTTTCTC | CAATGAAAA | | 180 | | |
| Db | 127 | GCTTGGGATACCAATGA | AGAACTCTTCA | AAAGGATG | TAGCTTTCTC | CAATGAAAA | | 186 | | |
| Qy | 181 | GTTTCCCAACAGAGAGCA | ACAGAAATTTCC | CATGTCTACTT | TGCAATGTA | ACCAGAG | | 240 | | |
| Db | 187 | GTTTCCCAACAGAGAGCA | ACAGAAATTTCC | CATGTCTACTT | TGCAATGTA | ACCAGAG | | 246 | | |
| Qy | 241 | GTATCATTTCTGTTGTG | TTGTGTACAGACC | CTTCAAAAAAT | CACACCCTTCTG | CTGTTGAG | | 300 | | |
| Db | 247 | GTATCATTTCTGTTGTG | TTGTGTACAGACC | CTTCAAAAAAT | CACACCCTTCTG | CTGTTGAG | | 306 | | |
| Qy | 301 | GTGCAATCAGCCATAGA | ATGAACAGAAACCG | ATCAACAATG | CTCTTTCTA | AATGAC | | 360 | | |
| Db | 307 | GTGCAATCAGCCATAGA | ATGAACAGAAACCG | ATCAACAATG | CTCTTTCTA | AATGAC | | 366 | | |
| Qy | 361 | CAAACTCTGGAATTTT | AAAAATCCCTTCC | ACACTTGCA | CCACCATG | GAACCACTGTG | | 420 | | |
| Db | 367 | CAAACTCTGGAATTTT | AAAAATCCCTTCC | ACACTTGCA | CCACCATG | GAACCACTGTG | | 426 | | |
| Qy | 421 | CCCATCTGGAATTTAT | TATTTGTGTGATAT | TTTGCA | TCATCATAGT | TGCAATTGCACTA | | 480 | | |
| Db | 427 | CCCATCTGGAATTTAT | TATTTGTGTGATAT | TTTGCA | TCATCATAGT | TGCAATTGCACTA | | 486 | | |
| Qy | 481 | CTGATTTTATCAGGAGT | CTGGCAACGTAGA | AGAAACAAAGAAC | CAATCTGA | AGTGAT | | 540 | | |
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| Db | 547 | GACGCTGAAGATTA | GTGTGAAAAATG | ATCACAATTGA | AAATGCA | TCCCCTGATCCC | | 606 | | |
| Qy | 601 | CTGACATGAAGGGGGG | GCATATTAATG | ATGCTTCA | TG | | | 638 | | |
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| | |
|------------|--|
| RESULT | 4 |
| AYJ59060 | |
| LOCUS | AYJ59060 |
| DEFINITION | Homo sapiens clone DNA61873 NX-17 (UNQ678) mRNA, complete cds. |
| ACCESSION | AYJ59060 |
| VERSION | AYJ59060.1 GI:37183237 |
| KEYWORDS | FLI_CDNA. |
| SOURCE | Homo sapiens (human) |
| ORGANISM | Homo sapiens |
| REFERENCE | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 1346) Clark,H.F., Gurney,A.L., Abaya,B., Baker,K., Baldwin,D., Brush,J., Chen,J., Chow,B., Chui,C., Crowley,C., Currell,B., Denel,B., Dowd,P., Eaton,D., Foster,J., Grimaldi,C., Gu,Q., Hass,P.B., Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S., Lee,J., Lewis,L., Liao,D., Mark,M., Robble,E., Sanchez,C., Schoenfeld,J., Seshagiri,S., Simons,L., Singh,J., Smith,V., Stinson,J., Vagts,A., Vandlen,R., Watanabe,C., Wieand,D., Woods,K., Xie,M.H., Yansura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z., Goddard,A., Wood,W.I. and Godowski,P. The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins: A Bioinformatics Assessment Genome Res. 13 (10), 2265-2270 (2003) |
| JOURNAL | PUBMED |
| FPMED | 12975309 |

REFERENCE 2 (bases 1 to 1346)
AUTHORS Clark, H.F.
TITLE Direct Submission
JOURNAL Submitted (01-AUG-2003) Department of Bioinformatics, Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080, USA

FEATURES
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| Query Match | 100.0%; | Score 638; | DB 9; | Length 1346; |
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| Best Local Similarity | 100.0%; | Pred. No. 2,4e-165; | | |
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| QY | 1 | ATGTTGTGGCTGCTCTTTTCTGTTGTAAGTCCATTCATGCTGAACCTGTGTCAACCAAGT | 60 | |
| Db | 7 | ATGTTGTGGCTGCTCTTTTCTGTTGTAAGTCCATTCATGCTGAACCTGTGTCAACCAAGT | 66 | |
| QY | 61 | GCAGAAAATGCTTTAAAGTGAAGCTTATGATCAGAACAGCTCTGGAGATAAAGCATAT | 120 | |
| Db | 67 | GCAGAAAATGCTTTAAAGTGAAGCTTATGATCAGAACAGCTCTGGAGATAAAGCATAT | 126 | |
| QY | 121 | GCCTGGGATACCAATGAAGAATACCTCTTCAAAAGCATGTGTAGCTTTCTCCATGAGAAAA | 180 | |
| Db | 127 | GCCTGGGATACCAATGAAGAATACCTCTTCAAAAGCATGTGTAGCTTTCTCCATGAGAAAA | 186 | |
| QY | 181 | GTTCCCAACAGAGAACCAAGAAATTTCCCATGTCTTCTTGCATGTAAACCAAGAG | 240 | |
| Db | 187 | GTTCCCAACAGAGAACCAAGAAATTTCCCATGTCTTCTTGCATGTAAACCAAGAG | 246 | |
| QY | 241 | GTAATCATTTCTGTTGTGTGTTACAGACCTTCAAAAAATCAACCTTCTGCTGTGAG | 300 | |
| Db | 247 | GTAATCATTTCTGTTGTGTGTTACAGACCTTCAAAAAATCAACCTTCTGCTGTGAG | 306 | |
| QY | 301 | GTCGAATCAGCCATGAAGATGAACAAGAACCGATCAACATGCTTTCTTAAATGAC | 360 | |
| Db | 307 | GTCGAATCAGCCATGAAGATGAACAAGAACCGATCAACATGCTTTCTTAAATGAC | 366 | |
| QY | 361 | CAACTCTGGAATTTTAAAAATCCCTCCACACTTGACCAACCATGGAACCATCTGTG | 420 | |
| Db | 367 | CAACTCTGGAATTTTAAAAATCCCTCCACACTTGACCAACCATGGAACCATCTGTG | 426 | |
| QY | 421 | CCCATCTGATTTATATATTTGTGTGATATTTTGCATCATCATAGTTGCAATTGCACTA | 480 | |
| Db | 427 | CCCATCTGATTTATATATTTGTGTGATATTTTGCATCATCATAGTTGCAATTGCACTA | 486 | |
| QY | 481 | CTGATTTTATCAGGGATCTGGCAACGTAGAAGAAAGAACAAAGAACCATCTGAAGTGAT | 540 | |
| Db | 487 | CTGATTTTATCAGGGATCTGGCAACGTAGAAGAAAGAACAAAGAACCATCTGAAGTGAT | 546 | |
| QY | 541 | GACGCTGAAGATAAGTGTGAAAAACATGATCACAAATTGAAAAATGGCATCCCTCTGATCCC | 600 | |
| Db | 547 | GACGCTGAAGATAAGTGTGAAAAACATGATCACAAATTGAAAAATGGCATCCCTCTGATCCC | 606 | |
| QY | 601 | CTGACATGAAGGGGGCATATTAATGATGCTTTCATG | 638 | |
| Db | 607 | CTGACATGAAGGGGGCATATTAATGATGCTTTCATG | 644 | |

| | | | | |
|------------|--|---------------------------|--------|-----------------|
| RESULT 5 | | | | |
| AX083382 | | | | |
| LOCUS | 666 bp | DNA | linear | PAT 28-FEB-2001 |
| DEFINITION | Sequence | 74 from Patent WO0112660. | | |
| ACCESSION | AX083382 | | | |
| VERSION | AX083382.1 | GI:13185219 | | |
| KEYWORDS | . | | | |
| SOURCE | Homo sapiens (human) | | | |
| ORGANISM | Homo sapiens | | | |
| REFERENCES | Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. | | | |
| AUTHORS | 1 Kato, S. and Kimura, T. | | | |
| TITLE | Human proteins having hydrophobic domains and dnas encoding these proteins | | | |
| JOURNAL | Patent: WO 0112660-A 74 22-FEB-2001; | | | |
| FEATURES | SAGAMI CHEMICAL RESEARCH CENTER (JP) ; Protegene Inc. (JP) | | | |
| source | Location/Qualifiers | | | |
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| | /mol_type="unassigned DNA" | | | |
| | /db_xref="taxon:9606" | | | |
| ORIGIN | | | | |

| Query Match | 98.3% | Score 627 | DB 6 | Length 666 |
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| Matches 638 | Conservative 0 | Mismatches 0 | Indels 1 | Gaps 1 |
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| DB | 1 | ATGTTGTGGCTGCTCTTTTCTGGTGACTGCAATCATGCTGAACCTCTGTCAACAGGT | 60 | |
| OY | 61 | GCAGAAATGCTTTAAAGTGAAGCTTAGTACAGAACAGCTCTGGAGATAAGCATAT | 120 | |
| DB | 61 | GCAGAAATGCTTTAAAGTGAAGCTTAGTACAGAACAGCTCTGGAGATAAGCATAT | 120 | |
| OY | 121 | GCTGGGATACCAATGAAAGATACCTCTCAAGCGATGTAGCTTTCTCCATGAGAAA | 180 | |
| DB | 121 | GCTGGGATACCAATGAAAGATACCTCTCAAGCGATGTAGCTTTCTCCATGAGAAA | 180 | |
| OY | 181 | GTTCCCAACAGAGAACCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCAAGG | 240 | |
| DB | 181 | GTTCCCAACAGAGAACCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCAAGG | 240 | |
| OY | 241 | GTATCATTTCTGTTTGTTGTGTTACAGACCCTTCAAAAATCACACCCTTCTGCTGTGAG | 300 | |
| DB | 241 | GTATCATTTCTGTTTGTTGTGTTACAGACCCTTCAAAAATCACACCCTTCTGCTGTGAG | 300 | |
| OY | 301 | GTGCATCAGCCATTAAGATGAACAAGAACCGATCAACAATGCTTTCTTAAATGAC | 360 | |
| DB | 301 | GTGCATCAGCCATTAAGATGAACAAGAACCGATCAACAATGCTTTCTTAAATGAC | 360 | |
| OY | 361 | CAAACTCTGGAATTTTAAAAATCCCTCCACACTTGCAACCACCATGAGCCCATCTGTG | 420 | |
| DB | 361 | CAAACTCTGGAATTTTAAAAATCCCTCCACACTTGCAACCACCATGAGCCCATCTGTG | 420 | |
| OY | 421 | CCCATCTGATTTATATATTTGGTGATATTTTGCATCATATAGTTGCAATTGCACTTA | 480 | |
| DB | 421 | CCCATCTGATTTATATATTTGGTGATATTTTGCATCATATAGTTGCAATTGCACTTA | 480 | |
| OY | 481 | CTGATTTTATCAGGATCTGGCAACGTAGAAAGAAAGAACAAAGAACCATCTGAAGTGAT | 540 | |
| DB | 481 | CTGATTTTATCAGGATCTGGCAACGTAGAAAGAAAGAACAAAGAACCATCTGAAGTGAT | 540 | |
| OY | 541 | GACGCTGAAGATAAGTGTGAAAACATGATCACAATTTGAAAATGGCATCCCTCTGATCCC | 600 | |
| DB | 541 | GACGCTGAAGATAAGTGTGAAAACATGATCACAATTTGAAAATGGCATCCCTCTGATCCC | 600 | |
| OY | 601 | CTGACATGAAAGG-GGGCATATTAATGATGCCCTTCATG 638 | | |
| DB | 601 | CTGACATGAAAGGAGGGCATATTAATGATGCCCTTCATG 639 | | |

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RESULT 6
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LOCUS      AX083392               1347 bp      DNA      linear      PAT 28-FEB-2001
DEFINITION Sequence 84 from Patent WO0112660.
ACCESSION  AX083392
VERSION     AX083392.1   GI:13185232
KEYWORDS
SOURCE
ORGANISM   Homo sapiens (human)
            Homo sapiens
            Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE  1
AUTHORS    Kato, S. and Kimura, T.
TITLE      Human proteins having hydrophobic domains and dnas encoding these
            proteins
JOURNAL    Patent: WO 0112660-A 84 22-FEB-2001;
            SAGAMI CHEMICAL RESEARCH CENTER (JP) ; Protegene Inc. (JP)
FEATURES   location/Qualifiers
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CDS

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| Db | Query | Match | Similarity | Score | DB | Length | Matches | Conservative | Mismatches | Indels | Gaps |
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| | | | 98.34; | 62.7; | 6; | 1347; | | | | | |
| | | | Best Local | 99.84; | | Pred. No. 2.6e-162; | | | | | |
| | | | Matches | 638; | | Conservative | 0; | | | | |
| | | | | | | Mismatches | 0; | | | | |
| | | | | | | Indels | 1; | | | | |
| | | | | | | Gaps | 1; | | | | |
| Db | Qy | 1 | ATGTGGGCTGCTCTTTTCTGGTGA | CGCATTCATGCTGA | ACTCTGTC | CAACCA | AGT | 60 | | | |
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| Db | Qy | 61 | GCAGAAATGCTTTAAAGTGA | AGCTAGTATCAGAA | CAGCTCTGGAGAT | AAAGCATAT | 120 | | | | |
| Db | Qy | 86 | GCAGAAATGCTTTAAAGTGA | AGCTAGTATCAGAA | CAGCTCTGGAGAT | AAAGCATAT | 145 | | | | |
| Db | Qy | 121 | GCCTGGATACCAATGA | GAATACCTCTTCAAA | GCATGTAGCTTTCTCCAT | GAGAAA | 180 | | | | |
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| Db | Qy | 181 | GTTCCCAACAGAGA | GAAGCAAGAAATTTCCAT | GTCTACTTTGCAAT | GTAAACCA | GAGG | 240 | | | |
| Db | Qy | 206 | GTTCCCAACAGAGA | GAAGCAAGAAATTTCCAT | GTCTACTTTGCAAT | GTAAACCA | GAGG | 265 | | | |
| Db | Qy | 241 | GTATCAATCTGGTTGTG | TTACAGACCCCTTC | CAAAAAATCA | CAACCTTCTG | CTGTGAG | 300 | | | |
| Db | Qy | 266 | GTATCAATCTGGTTGTG | TTACAGACCCCTTC | CAAAAAATCA | CAACCTTCTG | CTGTGAG | 325 | | | |
| Db | Qy | 301 | GTGCAATCAGCCATA | AGATGAACAAAGAA | CCGATCAACAAT | CCCTTCTTCT | TAATGAC | 360 | | | |
| Db | Qy | 326 | GTGCAATCAGCCATA | AGATGAACAAAGAA | CCGATCAACAAT | CCCTTCTTCT | TAATGAC | 385 | | | |
| Db | Qy | 361 | CAAACTCTGGAATTTT | AAAAATCCCTTCCA | CACTTGCA | CCACCATG | GACCATCTGTG | 420 | | | |
| Db | Qy | 386 | CAAACTCTGGAATTTT | AAAAATCCCTTCCA | CACTTGCA | CCACCATG | GACCATCTGTG | 445 | | | |
| Db | Qy | 421 | CCCATCTGGAATTTAT | TATATTTGGTGTGA | TATTTTGCAT | CAATCATAGT | GCAATTGCACTA | 480 | | | |
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QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAAGTGAT 540
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DB 626 CTGACATGAAGGGGAGGAGCATATTAAATGATGCTTCATG 664
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BC050606 1377 bp mRNA linear PRI 12-NOV-2003
LOCUS Homo sapiens kidney-specific membrane protein, mRNA (cDNA clone
DEFINITION MGC:60059 IMAGE:5183554), complete cds.
ACCESSION BC050606
VERSION BC050606.1 GI:30047080
KEYWORDS MGC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 1377)
AUTHORS Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,
Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J.,
McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
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Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
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Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smalins, D.B.,
Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
22388257
JOURNAL MEDLINE
PUBMED 12477932
REFERENCE 2 (bases 1 to 1377)
AUTHORS Strausberg, R.
TITLE Direct Submission
JOURNAL Submitted (08-APR-2003) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: <http://mgc.nci.nih.gov>
REMARK Contact: MGC help desk
COMMENT Email: cgabs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Sequencing Group at the Stanford Human Genome
Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: <http://www-shgc.stanford.edu>
Contact: (Dickson, Mark) mcd@paxil.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,
R. M.
Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LNL at: <http://image.lnl.gov>
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This clone was selected for full length sequencing because it

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LTPPL"
ORIGIN
Query Match 98.3%; Score 627; DB 9; Length 1377;
Best Local Similarity 99.8%; Pred. No. 2.6e-162;
Matches 638; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
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LOCUS 1440 bp mRNA linear PRI 04-OCT-2003
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MGC:22827 IMAGE:3829035), complete cds.
ACCESSION BC015099
VERSION BC015099.1 GI:15929328
KEYWORDS MGC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 1440)
AUTHORS Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hejeh, P.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.P., Casavant, T.L.,
Scheetz, T.E., Brownstein, M.J., Uedln, T.B., Toshlyuki, S.,
Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J.,
McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,
Boufard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.B.,
Scherch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
TITLE Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
MEDLINE 22388257
PUBMED 12477932
REFERENCE 2 (bases 1 to 1440)
AUTHORS Strausberg, R.
TITLE Direct Submission
JOURNAL Submitted (01-OCT-2001) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
REMARK NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT Contact: MGC help desk
Email: cgabs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: CLONTECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Institute for Systems Biology
http://www.systemsbio.org
contact: amadan@systemsbiology.org
Anup Madan, Jessica Fahey, Erin Helton, Mark Ketteman, Anuradha
Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting
Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LNL at: http://image.lnl.gov
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Location/Qualifiers
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LTPL"

ORIGIN
Query Match 98.3%; Score 627; DB 9; Length 1440;
Best Local Similarity 99.8%; Pred. No. 2.6e-162;
Matches 638; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 1 ATGTTGTGGCTGCTCTTTTCTGTGTAAGTCTGCAATTCATGCTGTAAGTCAAGAGT 60
DB 89 ATGTTGTGGCTGCTCTTTTCTGTGTAAGTCTGCAATTCATGCTGTAAGTCAAGAGT 148
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QY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCATG 638
DB 689 CTGACATGAAGGAGGAGGCATATTAATGATGCTTCATG 727

RESULT 9
BC014317
LOCUS 1605 bp mRNA linear PRI 04-OCT-2003
DEFINITION Homo sapiens kidney-specific membrane protein, mRNA (cDNA clone
MGC:22707 IMAGE:4048217), complete cds.
ACCESSION BC014317
VERSION BC014317.1 GI:15680012
KEYWORDS MGC.

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| SOURCE ORGANISM | Homo sapiens (human) Homo sapiens |
| REFERENCE AUTHORS | Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo. 1 (bases 1 to 1605) |
| TITLE | Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buettow, K.H., Schaefer, C.F., Bhat, N.R., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, P., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheetz, T.B., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullany, S.J., Bosak, S.A., McEwan, P.J., McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hult, S.W., Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Helton, E., Kettelman, M., Madan, A., Rodrigues, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzywicki, M.I., Skalska, U., Smailus, D.B., Schnerch, A., Schein, J.E., Jones, S.U. and Marra, M.A. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences |
| JOURNAL MEDLINE | Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002) |
| REFERENCE | 22388257 |
| AUTHORS | 12477932 |
| TITLE | 2 (bases 1 to 1605) |
| JOURNAL | Strausberg, R. Direct Submission Submitted (17-SEP-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA |
| REMARK COMMENT | NIH-MGC Project URL: http://mgc.nci.nih.gov Contact: MGC help desk Email: cgaphs-remail.nih.gov Tissue Procurement: ATCC cDNA Library Preparation: CLONTECH Laboratories, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Institute for Systems Biology http://www.systemsbio.org contact: amadansystemsbio.org Anup Madan, Jessica Fahey, Erin Helton, Mark Kettelman, Anuradha Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting |
| FEATURES | Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAL Plate: 31 Row: n Column: 3. location/Qualifiers 1. 1605 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="MGC:22707 IMAGE:4048217" /tissue_type="Bone marrow, chronic myelogenous leukemia" /clone_lib="NIH MGC_54" /lab_host="DH10B" /note="Vector: pDNR-LIB" 1. 1605 /gene="NX17" /note="synonym: NX-17" /db_xref="locusid:57393" 261. 929 /codon_start=1 /product="kidney-specific membrane protein" /protein_id="AAH14317.1" /db_xref="GI:15680013" /db_xref="locusid:57393" /translation="MLMLIFPLVTAIHAELQPGAENAFKYRLSIRALGDKAYAMD NEEYLFKAMVAFSMRKVTEATEISHLLCNVTORVSFWVTDPSSKNHTLPAAVEQ SAIRMNKRINNAFLNDQTLFLKIPSTLAPPMDSVPITWIIIFGVIFCIITVAIAL |
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| gene | |

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| | Query Match | 98.3%; Score 627; DB 9; Length 1605; |
| | Best Local Similarity | 99.8%; Pred. No. 2.6e-162; |
| | Matches 638; Conservative | 0; Mismatches 0; Indels 1; Gaps 1; |
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| REFERENCE | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 1447) Moore,P.A., Florence,K., Ni,J., Rosen,C.A., Carter,K.C., Soppet,D.R., Lafleur,D.W., Endress,G.A. and Khner,R. 97 human secreted proteins Patent: JP 2002533058-A 21 08-OCT-2002; HUMAN GENOME SCIENCES INC OS Homo sapiens (human) PN JP 2002533058-A/21 | |
| TITLE | JOURNAL | |
| COMMENT | | |

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PD 08-OCT-2002
PF 06-MAY-1999 JP 2000548451
PR 12-MAY-1998 US 60/085093,12-MAY-1998 US 60/085094 PR
12-MAY-1998 US 60/085105,12-MAY-1998 US 60/085180 PR
18-MAY-1998 US 60/085927,18-MAY-1998 US 60/085906 PR
18-MAY-1998 US 60/085924,18-MAY-1998 US 60/085922 PR
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18-MAY-1998 US 60/085925,18-MAY-1998 US 60/085928 PR
18-MAY-1998 US 60/085920
PI STEVEN M RUBEN,KIMBERLY FLORENCE,JIAN NI,CRAIG A ROSEN,KENNETH

PI C CARTER,
PI PAUL A MOORE,HENRIK S OLSEN,YANGSU SHI,PAUL B YOUNG,PING FBI
PI WEI,
PI LAURIE A BREWER,DANIEL R SOPPET,DAVID W LAFLUEUR,GREGORY A PI
ENDRESS,
PI REINHARD EBNER
PC C12N15/09,C07K14/00,C07K14/435,C07K16/18,C12N1/15,C12N1/19,PC
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FH Key Location/Qualifiers
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RESULT 11
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DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
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REFERENCE
AUTHORS
TITLE
JOURNAL
MEDLINE
PUBMED
REFERENCE
AUTHORS
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JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL

Homo sapiens (human)
Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1345)
Zhang,H., Wada,J., Hida,K., Tsuchiyama,Y., Hiragushi,K.,
Shikata,K., Wang,H., Lin,S., Kanwar,Y.S. and Makino,H.
Collectrin, a collecting duct-specific transmembrane glycoprotein,
is a novel homolog of ACE2 and is developmentally regulated in
embryonic kidneys
J. Biol. Chem. 276 (20), 17132-17139 (2001)
21264468
11278314
2 (bases 1 to 1345)
Zhang,H., Wada,J. and Makino,H.
Human kidney specific membrane protein (NX-17)
Unpublished
3 (bases 1 to 1345)
Zhang,H., Wada,J. and Makino,H.
Direct Submission
Submitted (28-JAN-2000) Department of Medicine III, Okayama
University Medical School, 2-5-1 Shikata-cho, Okayama 700-8558,
Japan

location/Qualifiers
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respectively"
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SAIRMKRINNAFPLNDQTLLEFLKIPSTLAPMDPSVPIWIIIFGVIFCIIVAIAL
LILSGIWRKRKRKBPSEVDADKCEKNMTIENGIPSPIDMKGHINDAFMTBDE
LTPL"

ORIGIN

Query Match 98.0%; Score 625.4; DB 9; Length 1345;
Best Local Similarity 99.7%; Pred. No. 7.2e-162;
Matches 637; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 ATGTTGTGGCTGCTTTTCTGCTGAGCTGCCATTCATGCTGAACCTCTGTCAACCAAGT 60
    |||
Db 24 ATGTTGTGGCTGCTTTTCTGCTGAGCTGCCATTCATGCTGAACCTCTGTCAACCAAGT 83

QY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 120
    |||
Db 84 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 143

QY 121 GCCTGGATACCAATGAAGATACCTCTCAAGCATGTAGCTTTCTCCATGAGAAA 180
    |||
Db 144 GCCTGGATACCAATGAAGATACCTCTCAAGCATGTAGCTTTCTCCATGAGAAA 203

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| | | | |
|----|-----|--|-----|
| Oy | 181 | GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTCTACTTTGCAATGTAAACCCAGAGG | 240 |
| Db | 204 | GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTCTACTTTGCAATGTAAACCCAGAGG | 263 |
| Oy | 241 | GATCATTTCTGTGTTGTGTGTTACAGACCCTTCAAAAAATCACAACCCCTTCTGTGTGAG | 300 |
| Db | 264 | GATCATTTCTGTGTTGTGTGTTACAGACCCTTCAAAAAATCACAACCCCTTCTGTGTGAA | 323 |
| Oy | 301 | GTGCAATCAGCCATAGAANTGAACAAGAACCGGATCAACAATGCTTCTTTCTAAATGAC | 360 |
| Db | 324 | GTGCAATCAGCCATAGAANTGAACAAGAACCGGATCAACAATGCTTCTTTCTAAATGAC | 383 |
| Oy | 361 | CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCATGAGCCATCTGTG | 420 |
| Db | 384 | CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCATGAGCCATCTGTG | 443 |
| Oy | 421 | CCCATCTGATATATATATTGTGTGATATTTGCATCATCATAGTTGCAATTGCACTA | 480 |
| Db | 444 | CCCATCTGATATATATATTGTGTGATATTTGCATCATCATAGTTGCAATTGCACTA | 503 |
| Oy | 481 | CTGATTTTATCAGGGAATCTGGCAACGTAGAAGAAAGACAAGAACCATCTGAAGTGAT | 540 |
| Db | 504 | CTGATTTTATCAGGGAATCTGGCAACGTAGAAGAAAGACAAGAACCATCTGAAGTGAT | 563 |
| Oy | 541 | GACGCTGAAGATTAAGTGTGAAAAACATGATCACAAATTGAAAAATGSCATCCCTCTGATCC | 600 |
| Db | 564 | GACGCTGAAGATTAAGTGTGAAAAACATGATCACAAATTGAAAAATGSCATCCCTCTGATCC | 623 |
| Oy | 601 | CTGACATGAAAGG-GGGCATATTTATGATGCTTTCATG | 638 |
| Db | 624 | CTGACATGAAAGGAGGGCATATTTATGATGCTTTCATG | 662 |

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RESULT 12
BD083420
LOCUS      1401 bp      DNA      linear      PAT 27-AUG-2002
DEFINITION Secreted proteins and polynucleotides encoding them.
ACCESSION  BD083420
VERSION    BD083420.1  GI:22629030
KEYWORDS   JP 2001523950-A/2.
SOURCE     synthetic construct
           ORGANISM   synthetic construct
                   artificial sequences.
REFERENCE   1 (bases 1 to 1401)
AUTHORS    Jacobs,K., McCoy,J.M., Lavallie,E.R., Racie,L.A., Merberg,D.,
            Treacy,M., Spaulding,V. and Agostino,M.J.
TITLE      Secreted proteins and polynucleotides encoding them
JOURNAL    Patent: JP 2001523950-A 2 27-NOV-2001;
GENETICS   GENETICS INSTITUTE INC
COMMENT    PN  JP 2001523950-A/2
           PD  27-NOV-2001
           PF  23-JAN-1998  JP 1998532177
           PR  24-JAN-1997  US      08/788789
           PI  KENNETH JACOBS, JOHN M MCCOY, EDWARD R LAVALLIE, LISA A RACIE, PI
               DAVID MERBERG,
               PI MAURICE TREACY, VIKKI SPAULDING, MICHAEL J AGOSTINO PC
               C12N15/12, C12N5/10, C07K14/47, C12Q1/68, A61K38/17 CC      Strandedness:
               Double;
               CC  Topology: Linear;
               FH  Key      Location/Qualifiers.
FEATURES   location/Qualifiers
             1..1401
             /organism="synthetic construct"
             /mol_type="genomic DNA"
             /db_xref="taxon:32630"
ORIGIN

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| | | | | |
|---------------------------|-------|--------------------|----------|-------------|
| Query Match | 98.0% | Score 625.4 | DB 6 | Length 1401 |
| Best Local Similarity | 99.7% | Pred. No. 7.2e-162 | | |
| Matches 637; Conservative | 0 | Mismatches 1 | Indels 1 | Gaps 1 |

| | | | |
|----|-----|---|-----|
| Db | 71 | ATGTTGTGGCTGCTCTTTTTCGTGTACTGCCATTCACTGTGAACCTCTGCAACCAAGGT | 130 |
| Qy | 61 | GCAGAAAATGCTTTTAAAGTGAAGACTTAGTATCAGAACAGCTCTGGAGATAAAGCATAT | 120 |
| Db | 131 | GCAGAAAATGCTTTTAAAGTGAAGACTTAGTATCAGAACAGCTCTGGAGATAAAGCATAT | 190 |
| Qy | 121 | GCTTGGATACCAATGAAGAATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAAA | 180 |
| Db | 191 | GCTTGGATACCAATGAAGAATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAAA | 250 |
| Qy | 181 | GTTCCCAACAGAGAAGCAACAGAAATTTCCATGTCTACTTTGCAATGTAAACCAAGAG | 240 |
| Db | 251 | GTTCCCAACAGAGAAGCAACAGAAATTTCCATGTCTACTTTGCAATGTAAACCAAGAG | 310 |
| Qy | 241 | GTAATCATTGCTTTGTGTGTACAGACCCTTCAAAAAATGACACCCCTTCTGCTGTGAG | 300 |
| Db | 311 | GTAATCATTGCTTTGTGTGTACAGACCCTTCAAAAAATGACACCCCTTCTGCTGTGAG | 370 |
| Qy | 301 | GTGCAATCAGCCATAGAATGAACAAGAACCGATCAACAATGCCCTTCTTCTAAATGAC | 360 |
| Db | 371 | GTGCAATCAGCCATAGAATGAACAAGAACCGATCAACAATGCCCTTCTTCTAAATGAC | 430 |
| Qy | 361 | CAACTCTGGAATTTTAAAAAATCCCTTCCACACTTGACCAACCCATGACCATCTGTG | 420 |
| Db | 431 | CAACTCTGGAATTTTAAAAAATCCCTTCCACACTTGACCAACCCATGACCATCTGTG | 490 |
| Qy | 421 | CCCATCTGGAATTAATTAATTTGGTGTGATATTTTGCAATCATAGTTGCAATGCACTA | 480 |
| Db | 491 | CCCATCTGGAATTAATTAATTTGGTGTGATATTTTGCAATCATAGTTGCAATGCACTA | 550 |
| Qy | 481 | CTGATTTTATCAGGGATCTGGCAACGTAGAAAGAAAGAACCAATCTGAAGTGGAT | 540 |
| Db | 551 | CTGATTTTATCAGGGATCTGGCAACGTAGAAAGAAAGAACCAATCTGAAGTGGAT | 610 |
| Qy | 541 | GACGCTGAAGATAAGTGTGAAGAACATGATCACAATTGAAAAATGGCATCCCTCTGATCCC | 600 |
| Db | 611 | GACGCTGAAGATAAGTGTGAAGAACATGATCACAATTGAAAAATGGCATCCCTCTGATCCC | 670 |
| Qy | 601 | CTGGAATGAAGGG-GGGCATATTAATGATGCTTCATG 638 | |
| Db | 671 | CTGGAATGAAGGGAGGGCATATTAATGATGCTTCATG 709 | |

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RESULT 13
ARI177334
LOCUS      ARI177334      848 bp      DNA      linear      PAT 17-DEC-2001
DEFINITION Sequence 27 from patent US 6312922.
ACCESSION  ARI177334
VERSION     ARI177334.1  GI:17919689
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 848)
AUTHORS    Edwards,J.-B.,Dumas,Milne., Duclet,A. and Bougueleret,L.
TITLE       Complementary DNAs
JOURNAL     Patent: US 6312922-A 27 06-NOV-2001;
FEATURES
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            /organism="unknown"
            /mol_type="unassigned DNA"

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| Query Match | 98.0%; | Score 625; | DB 6; | Length 848; |
| Best Local Similarity | 99.2%; | Pred. No. 9.3e-162; | | |
| Matches 634; | Conservative 4; | Mismatches 0; | Indels 1; | Gaps 1; |
| QY | 1 | ATGTTGNGGCTCTTTTCTGTGAGTGCATTCATGCTGAACCTGTGCAACCAAGT | 60 | |
| | | | | |
| | | | | |
| | | | | |
| Db | 32 | ATGTTGNGGCTCTTTTCTGTGAGTGCATTCATGCTGAACCTGTGCAACCAAGT | 91 | |
| QY | 61 | GCAAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAAAGCATAT | 120 | |

|||||
Db 92 GCAGAAATGCTTTAAAGTAGACTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 151
QY 121 GCCTGGATACCAATGAGAACTCTTCAAGCGATGGTAGCTTCTCCATGAGAAA 180
Db 152 GCCTGGATACCAATGAGAACTCTTCAAGCGATGGTAGCTTCTCCATGAGAAA 211
QY 181 GTTCCCAACAGAGAACACAGAAATTTCCCATGTCTTCTTGAATGTAAACAGAGG 240
Db 212 GTTCCCAACAGAGAACACAGAAATTTCCCATGTCTTCTTGAATGTAAACAGAGG 271
QY 241 GTATCATCTGCTTTGTGTTTACAGACCTTCAAAAATCACAACCTTCTGCTTGAG 300
Db 272 GTATCATCTGCTTTGTGTTTACAGACCTTCAAAAATCACAACCTTCTGCTTGAG 331
QY 301 GTGCAATCAGCCATAGAAATGAAACAGAACCGGATCAACAATGCTTCTTCTAATGAC 360
Db 332 GTGCAATCAGCCATAGAAATGAAACAGAACCGGATCAACAATGCTTCTTCTAATGAC 391
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCAATGAG 420
Db 392 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCAATGAG 451
QY 421 CCCATCTGATATTATATTGTTGTTGATATTGTTGATCATCATAGTTCATGACTA 480
Db 452 CCCATCTGATATTATATTGTTGTTGATATTGTTGATCATCATAGTTCATGACTA 511
QY 481 CTGATTTTATCAGGATCTGGCAACCTAGAGAAAGAAACAAACCAATCTGAAGTGGAT 540
Db 512 CTGATTTTATCAGGATCTGGCAACCTAGAGAAAGAAACAAACCAATCTGAAGTGGAT 571
QY 541 GACGCTGAAGATTAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCTGATCCC 600
Db 572 GACGCTGAAGATTAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCTGATCCC 631
QY 601 CTGACATGAAGG-GGGCATATTATGATGCTTCATG 638
Db 632 CTGACATGAAGGAGGGCATATTATGATGCTTCATG 670

RESULT 14
LOCUS BD247957 848 bp DNA linear PAT 17-JUL-2003
DEFINITION 5' ESTs for secreted proteins expressed in various tissues.
ACCESSION BD247957
VERSION BD247957.1 GI:33057727
KEYWORDS JP 2002525024-A/22.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 848)
REFERENCE
AUTHORS Edwards, J.B.D.M., Duclert, A. and Lacroix, B.
TITLE 5' ESTs for secreted proteins expressed in various tissues
JOURNAL Patent: JP 2002525024-A 22 13-AUG-2002;
COMMENT
OS Homo sapiens (human)
PN JP 2002525024-A/22
PD 13-AUG-2002
PF 31-JUL-1998 JP 2000505294
PR 01-AUG-1997 US 08/905051
PI JEAN BAPTISTE DUMAS MILNE EDWARDS, AYMERIC DUCLEERT, BRUNO PI
LACROIX
PC C12N15/09, C12N15/09, C07K14/47, C12M1/00, C12P21/02, C12N15/00, PC
C12N15/00
CC Von Heljne matrix
CC score 10.7
CC seq LMLPFLVTAIHA/EL
FH Key Location/Qualifiers
FT sig_peptide 32..73.
Location/Qualifiers
1..848
source
/organism="Homo sapiens"

/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 98.0%; Score 625; DB 6; Length 848;
Best Local Similarity 99.2%; Pred. No. 9.3e-162;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTTGTGCTGCTCTTTTTCCTGTTGACTGCTCATTCATGCTGAACCTGTCAACCGT 60
Db 32 ATGTTGTGCTGCTCTTTTTCCTGTTGACTGCTCATTCATGCTGAACCTGTCAACCGT 91
QY 61 GCAGAAATGCTTTTAAAGTGAAGCTTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 120
Db 92 GCAGAAATGCTTTTAAAGTGAAGCTTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 151
QY 121 GCCTGGATACCAATGAGAACTCTTCAAGCGATGGTAGCTTCTCCATGAGAAA 180
Db 152 GCCTGGATACCAATGAGAACTCTTCAAGCGATGGTAGCTTCTCCATGAGAAA 211
QY 181 GTTCCCAACAGAGAACACAGAAATTTCCCATGTCTTCTTGAATGTAAACAGAGG 240
Db 212 GTTCCCAACAGAGAACACAGAAATTTCCCATGTCTTCTTGAATGTAAACAGAGG 271
QY 241 GTATCATCTGCTTTGTGTTTACAGACCTTCAAAAATCACAACCTTCTGCTTGAG 300
Db 272 GTATCATCTGCTTTGTGTTTACAGACCTTCAAAAATCACAACCTTCTGCTTGAG 331
QY 301 GTGCAATCAGCCATAGAAATGAAACAGAACCGGATCAACAATGCTTCTTCTAATGAC 360
Db 332 GTGCAATCAGCCATAGAAATGAAACAGAACCGGATCAACAATGCTTCTTCTAATGAC 391
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCAATGAG 420
Db 392 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCAATGAG 451
QY 421 CCCATCTGATATTATATTGTTGTTGATATTGTTGATCATCATAGTTCATGACTA 480
Db 452 CCCATCTGATATTATATTGTTGTTGATATTGTTGATCATCATAGTTCATGACTA 511
QY 481 CTGATTTTATCAGGATCTGGCAACCTAGAGAAAGAAACAAACCAATCTGAAGTGGAT 540
Db 512 CTGATTTTATCAGGATCTGGCAACCTAGAGAAAGAAACAAACCAATCTGAAGTGGAT 571
QY 541 GACGCTGAAGATTAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCTGATCCC 600
Db 572 GACGCTGAAGATTAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCTGATCCC 631
QY 601 CTGACATGAAGG-GGGCATATTATGATGCTTCATG 638
Db 632 CTGACATGAAGGAGGGCATATTATGATGCTTCATG 670

RESULT 15
LOCUS AR340701 848 bp DNA linear PAT 17-AUG-2003
DEFINITION Sequence 27 from patent US 6573068.
ACCESSION AR340701
VERSION AR340701.1 GI:33732443
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
1 (bases 1 to 848)
AUTHORS Milne Edwards, J.-B.D., Duclert, A. and Bougueleret, L.
TITLE Claudin-50 protein
JOURNAL Patent: US 6573068-A 27 03-JUN-2003;
FEATURES
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Location/Qualifiers
/organism="unknown"
/mol_type="genomic DNA"
ORIGIN

sig_peptide

SAIRMNKRIINNAFLNDQTLLEFLKIPSTLAPPMDSVPIMIIIGVIFCIITVAIAL
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32..73
/note="Von Heijne matrix"

ORIGIN

Query Match 98.0%; Score 625; DB 6; Length 848;
Best Local Similarity 99.2%; Pred. No. 9.3e-162;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

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QY 1 ATGTTGTGGCTGCTCTTTTTCGTGTAAGTCCATTCATGCTGAAGTCTGTCAACCAAGT 60
    |||
DB 32 ATGTTGTGGCTGCTCTTTTTCGTGTAAGTCCATTCATGCTGAAGTCTGTCAACCAAGT 91
QY 61 GCAGAAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAAGCATAT 120
    |||
DB 92 GCAGAAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAAGCATAT 151
QY 121 GCCTGGATACCAATGAAGATACTCTCAAGCGATGTAGCTTTCTCCATGAGAAAA 180
    |||
DB 152 GCCTGGATACCAATGAAGATACTCTCAAGCGATGTAGCTTTCTCCATGAGAAAA 211
QY 181 GTTCCCAACAGAGAACAGAACAAATTTCCCATGCTCTACTTTGCAATGTAAACCAAGG 240
    |||
DB 212 GTTCCCAACAGAGAACAGAACAAATTTCCCATGCTCTACTTTGCAATGTAAACCAAGG 271
QY 241 GTATCATTTCTGTTGTGTGTACAGACCTTCAAAAATCACAACCTTCTGCTGTGAG 300
    |||
DB 272 GTATCATTTCTGTTGTGTGTGTACAGACCTTCAAAAATCACAACCTTCTGCTGTGAG 331
QY 301 GTGCAATCAGCCATGAAGATGAAGAACCGGATCAACATGCTTCTTCTAAATGAC 360
    |||
DB 332 GTGCAATCAGCCATGAAGATGAAGAACCGGATCAACATGCTTCTTCTAAATGAC 391
QY 361 CAAACTCTGAATTTTAAAAATCCTTCCACACTTGCAACCAACCAAGGACCATCTGTG 420
    |||
DB 392 CAAACTCTGAATTTTAAAAATCCTTCCACACTTGCAACCAACCAAGGACCATCTGTG 451
QY 421 CCCATCTGATTTATATATTGTGTGTATTTTGCATCATCATAGTGCATTTGCACTA 480
    |||
DB 452 CCCATCTGATTTATATATTGTGTGTATTTTGCATCATCATAGTGCATTTGCACTA 511
QY 481 CTGATTTTATCAGGATCTGCAACGTAGAAGAAAGAACCAATCTGAATGAT 540
    |||
DB 512 CTGATTTTATCAGGATCTGCAACGTADARAAGAACCAATCTGAATGAT 571
QY 541 GACGCTGAAGATAGTGTGAAGACATGATCAATGAAGATGCAATGCAATGCCCTCTGATCCC 600
    |||
DB 572 GACGCTGAARATATAKTGTGAAGACATGATCAATGAAGATGCAATGCAATGCCCTCTGATCCC 631
QY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCATG 638
    |||
DB 632 CTGACATGAAGGAGGAGCATATTAATGATGCTTCATG 670
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RESULT 18

BD023757 848 bp DNA linear PAT 27-AUG-2002
LOCUS
DEFINITION
Sequence tag and encoded human protein.
ACCESSION
BD023757
VERSION
BD023757.1 GI:22564980
KEYWORDS
JP 2001269182-A/3.
SOURCE
Homo sapiens (human)

ORGANISM

Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE

1 (bases 1 to 848)
Edwards, J.B.D.M., Duclair, B. and Jordan, J.Y.

AUTHORS

Sequence tag and encoded human protein
Patent: JP 2001269182-A 3 02-OCT-2001;

TITLE

JOURNAL

GENSET

COMMENT

OS Homo sapiens (human)

FN JP 2001269182-A/3
PD 02-OCT-2001
PF 24-FEB-2000 JP 2000118773
PR 26-FEB-1999 US 60/122487
PI JEAN BAPTISTE DUMAS MILNE EDWARDS, BIMERIC DUCLAIR, JEAN YVES
PI JORDAN
PC C12N15/09, C07K14/435, C07K16/18, C12N1/15, C12N1/19, C12N1/21, PC
C12N5/10,
PC C12P21/02, C12P21/08, C12Q1/68//G06F17/30, C12N15/00, C12N5/00, PC
G06F15/40
CC Von Heijne matrix
FH Key Location/Qualifiers
FT CDS 32..697
FT sig_peptide 32..73.
FT location/Qualifiers
source 1..848
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 98.0%; Score 625; DB 6; Length 848;
Best Local Similarity 99.2%; Pred. No. 9.3e-162;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

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QY 1 ATGTTGTGGCTGCTCTTTTTCGTGTAAGTCCATTCATGCTGAAGTCTGTCAACCAAGT 60
    |||
DB 32 ATGTTGTGGCTGCTCTTTTTCGTGTAAGTCCATTCATGCTGAAGTCTGTCAACCAAGT 91
QY 61 GCAGAAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAAGCATAT 120
    |||
DB 92 GCAGAAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAAGCATAT 151
QY 121 GCCTGGATACCAATGAAGATACTCTCAAGCGATGTAGCTTTCTCCATGAGAAAA 180
    |||
DB 152 GCCTGGATACCAATGAAGATACTCTCAAGCGATGTAGCTTTCTCCATGAGAAAA 211
QY 181 GTTCCCAACAGAGAACAGAACAAATTTCCCATGCTCTACTTTGCAATGTAAACCAAGG 240
    |||
DB 212 GTTCCCAACAGAGAACAGAACAAATTTCCCATGCTCTACTTTGCAATGTAAACCAAGG 271
QY 241 GTATCATTTCTGTTGTGTGTGTACAGACCTTCAAAAATCACAACCTTCTGCTGTGAG 300
    |||
DB 272 GTATCATTTCTGTTGTGTGTGTGTACAGACCTTCAAAAATCACAACCTTCTGCTGTGAG 331
QY 301 GTGCAATCAGCCATGAAGATGAAGAACCGGATCAACATGCTTCTTCTAAATGAC 360
    |||
DB 332 GTGCAATCAGCCATGAAGATGAAGAACCGGATCAACATGCTTCTTCTAAATGAC 391
QY 361 CAAACTCTGAATTTTAAAAATCCTTCCACACTTGCAACCAACCAAGGACCATCTGTG 420
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DB 392 CAAACTCTGAATTTTAAAAATCCTTCCACACTTGCAACCAACCAAGGACCATCTGTG 451
QY 421 CCCATCTGATTTATATATTGTGTGTATTTTGCATCATCATAGTGCATTTGCACTA 480
    |||
DB 452 CCCATCTGATTTATATATTGTGTGTATTTTGCATCATCATAGTGCATTTGCACTA 511
QY 481 CTGATTTTATCAGGATCTGCAACGTAGAAGAAAGAACCAATCTGAATGAT 540
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DB 512 CTGATTTTATCAGGATCTGCAACGTADARAAGAACCAATCTGAATGAT 571
QY 541 GACGCTGAAGATAGTGTGAAGACATGATCAATGAAGATGCAATGCAATGCCCTCTGATCCC 600
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DB 572 GACGCTGAARATATAKTGTGAAGACATGATCAATGAAGATGCAATGCAATGCCCTCTGATCCC 631
QY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCATG 638
    |||
DB 632 CTGACATGAAGGAGGAGCATATTAATGATGCTTCATG 670
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RESULT 19

BD073618

LOCUS

848 bp

DNA

linear

PAT 27-AUG-2002

| | |
|------------|---|
| DEFINITION | 5'EST of secreted protein expressing in testis and other tissues. |
| ACCESSION | BD073618 |
| VERSION | BD073618.1 GI:22619221 |
| KEYWORDS | JP 2001512012-A/22. |
| SOURCE | Homo sapiens (human) |
| ORGANISM | Homo sapiens |
| REFERENCE | Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. |
| AUTHORS | 1 (Bases 1 to 848) |
| TITLE | Baputist,D.M.B.U., Bimeric,D. and Bruno,L. |
| JOURNAL | 5'EST of secreted protein expressing in testis and other tissues Patent: JP 2001512012-A 22 21-AUG-2001; |
| COMMENT | GENSET OS Homo sapiens (human) PN JP 2001512012-A/22 PD 21-AUG-2001 PF 31-JUL-1998 JP 2000505290 PR 01-AUG-1997 US 08/905279 PI DUMAS MILNE EDWARDS JEAN BAPUTIST,DUCLAIR BIMERIC,IACROIX PI BRUNO PC C12N15/09,A61K38/00,A61K48/00,C07K14/435,C07K19/00,C12P21/02, PC C12Q1/68, PC G01N33/50,G01N33/53,G01N33/53,G01N33/566,C12N15/00,A61K37/02 CC Strandedness: Double; CC Topology: Linear; CC score 10.7 CC seq LMLFLPLVTALHA/BL FH key Location/Qualifiers FT sig_peptide 32..73. Location/Qualifiers 1..848 /organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606" |
| FEATURES | |
| source | |

| Query Match | 98.0% | Score 625 | DB 6 | Length 848 |
|-----------------------|----------------|---|----------|------------|
| Best Local Similarity | 99.2% | Pred. No. 9.3e-162 | | |
| Matches 634 | Conservative 4 | Mismatches 0 | Indels 1 | Gaps 1 |
| Qy | 1 | ATGTTGTGCTGCTCTTTTCTGTGTGACTGCGCATTCATGTGAAGTCTGTGCAACCAAGT | 60 | |
| Db | 32 | ATGTTGTGCTGCTCTTTTCTGTGTGACTGCGCATTCATGTGAAGTCTGTGCAACCAAGT | 91 | |
| Qy | 61 | GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATTAAGCATAT | 120 | |
| Db | 92 | GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATTAAGCATAT | 151 | |
| Qy | 121 | GCTTGGATACCAATGAAGATACCTCTTCAAAAGATGTAGCTTTCTCCATGAGAAAA | 180 | |
| Db | 152 | GCTTGGATACCAATGAAGATACCTCTTCAAAAGATGTAGCTTTCTCCATGAGAAAA | 211 | |
| Qy | 181 | GTTCCCAACAGAGAACCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCAAGG | 240 | |
| Db | 212 | GTTCCCAACAGAGAACCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCAAGG | 271 | |
| Qy | 241 | GTAATCATTCGTGTGTGTGTACAGACCCCTTCAAAAATCACAACCCCTTCTGTGTAG | 300 | |
| Db | 272 | GTAATCATTCGTGTGTGTGTGTACAGACCCCTTCAAAAATCACAACCCCTTCTGTGTAG | 331 | |
| Qy | 301 | GTCGAATCAGCCATAAGATGAACAGAACCGGATCAACAAATGCTTTCTTAAATGAC | 360 | |
| Db | 332 | GTCGAATCAGCCATAAGATGAACAGAACCGGATCAACAAATGCTTTCTTAAATGAC | 391 | |
| Qy | 361 | CAAACTGTGAATTTTAAAAATCCCTTCACACTTGCAACCAACCATGTGTG | 420 | |
| Db | 392 | CAAACTGTGAATTTTAAAAATCCCTTCACACTTGCAACCAACCATGTGTG | 451 | |
| Qy | 421 | CCCATCTGATTAATATATTGTGTGATATTTGCATCATCATAGTTGCATTTGCACATA | 480 | |
| Db | 452 | CCCATCTGATTAATATATTGTGTGATATTTGCATCATCATAGTTGCATTTGCACATA | 511 | |
| Qy | 481 | CTGATTTTATCAGGATCTGGCAACGTAGAAGAAACAAAGAACCATCTGAAGTGAT | 540 | |

| | | | | | |
|------------|---|---|-----------------------------|-----------------------------|-----------------|
| Db | 512 | CTGATTTTATCAGGGGATCTGGCAACGTA | DBA | RAAGAACAAAGAACCATCTGAAGTGAT | 571 |
| Qy | 541 | GACGCTGAAGATAAGTGTGAAACATGATCA | CAATTGAAATGGCATCCCTCTGATCCC | 600 | |
| Db | 572 | GACGCTGAARATTA | KTGTGAAACATGATCA | CAATTGAAATGGCATCCCTCTGATCCC | 631 |
| Qy | 601 | CTGGACATGAAGGG-GGGCATATTAATGATG | CCCTTCATG | 638 | |
| Db | 632 | CTGGACATGAAGGGAGGGCATATTAATGATG | CCCTTCATG | 670 | |
| RESULT 20 | | | | | |
| LOCUS | BD075896 | | | | |
| DEFINITION | BD075896 | 848 bp | DNA | linear | PAT 27-AUG-2002 |
| ACCESSION | BD075896 | 5' EST of secretory protein expressed in endoblast. | | | |
| VERSION | BD075896.1 | GI:22621499 | | | |
| KEYWORDS | JP 2001512005-A/22. | | | | |
| SOURCE | Homo sapiens (human) | | | | |
| ORGANISM | Homo sapiens | | | | |
| REFERENCE | Bukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; | | | | |
| AUTHORS | Mammalia; Butheria; Primates; Catarrhini; Hominiidae; Homo. | | | | |
| TITLE | Edwards, J.B.D.M., Duclert, A. and Lacroix, B. | | | | |
| JOURNAL | 5' EST of secretory protein expressed in endoblast | | | | |
| | Patent: JP 2001512005-A 22 21-AUG-2001; | | | | |

| COMMENT | OS | Homo sapiens (human) |
|---------------------------|--|---------------------------------|
| PN | JP 2001512005-A/22 | |
| PD | 21-AUG-2001 | |
| PF | 31-JUL-1998 JP 2000505194 | |
| PR | 01-AUG-1997 US 08/904468 | |
| PI | JEAN BAPTISTE DUMAS MILNE EDWARDS, AYMERIC DUCLEBERT, BRUNO PI | |
| LACROIX | | |
| PC | C12N15/09, C07K19/00, C12M1/00, C12N1/15, C12N1/19, C12N1/21, C12N5/ | |
| PC | 10, C12Q1/68, | |
| PC | C12N15/00, C12N5/00 | |
| CC | Von Heijne matrix | |
| CC | score 10.7 | |
| CC | seg LMLLFFLVTAHA/EL | |
| FH | Key | Location/Qualifiers |
| FT | sig_peptide | 32..73. |
| | Location/Qualifiers | |
| FEATURES | source | |
| | 1..848 | |
| | /organism="Homo sapiens" | |
| | /mol_type="genomic DNA" | |
| | /db_xref="taxon:9606" | |
| ORIGIN | | |
| Query Match | 98.0%; | Score 625; DB 6; Length 848; |
| Best Local Similarity | 99.2%; | Pred. No. 9.3e-162; |
| Matches 634; Conservative | 4; | Mismatches 0; Indels 1; Gaps 1; |
| QY | 1 ATGTTGNGCTGCTCTTTTCTGTGTGACTGCCATTTCATGCTGAACCTCTGTCAACCAAGT | 60 |
| DB | 32 ATGTTGNGCTGCTCTTTTCTGTGTGACTGCCATTTCATGCTGAACCTCTGTCAACCAAGT | 91 |
| QY | 61 GCAGAAAATGCTTTTAAAGTAGACTTAAGTATCAGAACAGCTCTGGAGATTAAGCATAT | 120 |
| DB | 92 GCAGAAAATGCTTTTAAAGTAGACTTAAGTATCAGAACAGCTCTGGAGATTAAGCATAT | 151 |
| QY | 121 GCCTGGGATACCAATGAAAGATACCTCTTCAAGCGATGTAAGCTTTCTTCATGAGAAA | 180 |
| DB | 152 GCCTGGGATACCAATGAAAGATACCTCTTCAAGCGATGTAAGCTTTCTTCATGAGAAA | 211 |
| QY | 181 GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCAAGAG | 240 |
| DB | 212 GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCAAGAG | 271 |
| QY | 241 GTATCATTTCTGTTTGTGTTTACAGACCTTCAAAAAATCAACACCTTCTGCTGTTGAG | 300 |
| DB | 272 GTATCATTTCTGTTTGTGTTTACAGACCTTCAAAAAATCAACACCTTCTGCTGTTGAG | 331 |

QY 301 GTGCAATCAGCCATAGAAATGAAACGAGATCAATGCTTTCTTAATGAC 360
DB 332 GTGCAATCAGCCATAGAAATGAAACGAGATCAATGCTTTCTTAATGAC 391
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCCCATGGA 420
DB 392 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCCCATGGA 451
QY 421 CCCATCTGATTAATTAATTTGGTGATTAATTTGATCATCATAGTTGCAATGCACTA 480
DB 452 CCCATCTGATTAATTAATTTGGTGATTAATTTGATCATCATAGTTGCAATGCACTA 511
QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAAAGAAAGAAACCAATCTGAAGTGAT 540
DB 512 CTGATTTTATCAGGATCTGGCAACGTAGAAAGAAAGAAACCAATCTGAAGTGAT 571
QY 541 GACGCTGAAGATAAGTGTGAAACATGATCACAATTTGAAATGGCATCCCTCTGATCC 600
DB 572 GACGCTGAAGATAAGTGTGAAACATGATCACAATTTGAAATGGCATCCCTCTGATCC 631
QY 601 CTGACATGAAAGG-GGGCATATTAAATGATGCTTCATG 638
DB 632 CTGACATGAAAGGAGGAGGCATATTAAATGATGCTTCATG 670

RESULT 21
BD076074 848 bp DNA linear PAT 27-AUG-2002

LOCUS BD076074 848 bp DNA linear PAT 27-AUG-2002
DEFINITION 5' EST of tissue-nonspecific secretory protein.
ACCESSION BD076074
VERSION BD076074.1 GI:22621677
KEYWORDS JP 2001512011-A/22.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 848)
AUTHORS Edwards,J.B.D.M., Duclert,A. and Lacroix,B.
TITLE 5' EST of tissue-nonspecific secretory protein
JOURNAL Patent: JP 2001512011-A 22 21-AUG-2001;
GENSET

COMMENT OS Homo sapiens (human)
PN JP 2001512011-A/22
PD 21-AUG-2001
PR 31-JUL-1998 JP 2000505289
PR 01-AUG-1997 US 08/905135
PI JEAN BAPTISTE DUMAS MILNE EDWARDS,AYMERIC DUCLEERT,BRUNO PI
LACROIX
PC C12N15/09,C12N15/09,C07K14/47,C12Q1/68,C12N15/00,C12N15/00 CC
Von Heijne matrix
CC score 10.7
CC seq LMLFLPLVTAIHA/BL
FH Key Location/Qualifiers
FT sig_peptide 32..73.
Location/Qualifiers

FEATURES
source 1..848
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 98.0%; Score 625; DB 6; Length 848;
Best Local Similarity 99.2%; Pred. No. 9.3e-162;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

QY 1 AAGTTGGCTGCTCTTTTCTGGTACATTCATGCTGAATCTGTCAACAGGT 60
DB 32 AAGTTGGCTGCTCTTTTCTGGTACATTCATGCTGAATCTGTCAACAGGT 91
QY 61 GCAGAAATGCTTTTAAAGTGAAGTATGAGAACAGCTCTGGAGATTAAGCATAT 120
DB 92 GCAGAAATGCTTTTAAAGTGAAGTATGAGAACAGCTCTGGAGATTAAGCATAT 151

QY 121 GCTTGGATACCAATGAAATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 180
DB 152 GCTTGGATACCAATGAAATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 211
QY 181 GTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAACCCAGAG 240
DB 212 GTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAACCCAGAG 271
QY 241 GTATCATTTCTGTTTGTGTTTACAGACCTTCAAAAATTCACACCTTCCGTGTTAG 300
DB 272 GTATCATTTCTGTTTGTGTTTACAGACCTTCAAAAATTCACACCTTCCGTGTTAG 331
QY 301 GTGCAATCAGCCATAGAAATGAAACAGAAACCGATCAACATGCTTCTTTCTAATGAC 360
DB 332 GTGCAATCAGCCATAGAAATGAAACAGAAACCGATCAACATGCTTCTTTCTAATGAC 391
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCCCATGGA 420
DB 392 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCCCATGGA 451
QY 421 CCCATCTGATTAATTAATTTGGTGATTAATTTGATCATCATAGTTGCAATGCACTA 480
DB 452 CCCATCTGATTAATTAATTTGGTGATTAATTTGATCATCATAGTTGCAATGCACTA 511
QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAAAGAAAGAAACCAATCTGAAGTGAT 540
DB 512 CTGATTTTATCAGGATCTGGCAACGTAGAAAGAAAGAAACCAATCTGAAGTGAT 571
QY 541 GACGCTGAAGATAAGTGTGAAACATGATCACAATTTGAAATGGCATCCCTCTGATCC 600
DB 572 GACGCTGAAGATAAGTGTGAAACATGATCACAATTTGAAATGGCATCCCTCTGATCC 631
QY 601 CTGACATGAAAGG-GGGCATATTAAATGATGCTTCATG 638
DB 632 CTGACATGAAAGGAGGAGGCATATTAAATGATGCTTCATG 670

RESULT 22
BD076775 848 bp DNA linear PAT 27-AUG-2002
LOCUS BD076775
DEFINITION 5' EST of secretory protein expressed in prostate.
ACCESSION BD076775
VERSION BD076775.1 GI:22622378
KEYWORDS JP 2001512013-A/22.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 848)
AUTHORS Edwards,J.B.D.M., Duclert,A. and Lacroix,B.
TITLE 5' EST of secretory protein expressed in prostate
JOURNAL Patent: JP 2001512013-A 22 21-AUG-2001;
GENSET

COMMENT OS Homo sapiens (human)
PN JP 2001512013-A/22
PD 21-AUG-2001
PR 31-JUL-1998 JP 2000505291
PR 01-AUG-1997 US 08/905144
PI JEAN BAPTISTE DUMAS MILNE EDWARDS,AYMERIC DUCLEERT,BRUNO PI
LACROIX
PC C12N15/09,C07K14/47,C12P21/02,C12Q1/02,C12Q1/68,C12N15/00 CC
Von Heijne matrix
CC score 10.7
CC seq LMLFLPLVTAIHA/BL
FH Key Location/Qualifiers
FT sig_peptide 32..73.
Location/Qualifiers

FEATURES
source 1..848
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 98.0%; Score 625; DB 6; Length 848;
Best Local Similarity 99.2%; Pred. No. 9.3e-162;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

OY 1 ATGTTGGGCTGCTCTTTTCTGTCGTCATTCATGCTGAACTCTGTCACCAAGT 60
DB 32 ATGTTGGGCTGCTCTTTTCTGTCGTCATTCATGCTGAACTCTGTCACCAAGT 91

OY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 120
DB 92 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 151

OY 121 GCGTGGATACCAATGAAGATACCTCTCAAGCGATGGTGGTCTTCTCCATGAGAAA 180
DB 152 GCGTGGATACCAATGAAGATACCTCTCAAGCGATGGTGGTCTTCTCCATGAGAAA 211

OY 181 GTTCCCAACAGAGAGCAAGAAATTTCCATGTCCTACTTTGCAATGTAAACCAAGG 240
DB 212 GTTCCCAACAGAGAGCAAGAAATTTCCATGTCCTACTTTGCAATGTAAACCAAGG 271

OY 241 GTATCATCTGTTTGTGTTACAGACCCTTCAAAAAATCACAACCTTCTGCTGTTGAG 300
DB 272 GTATCATCTGTTTGTGTTACAGACCCTTCAAAAAATCACAACCTTCTGCTGTTGAG 331

OY 301 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCAACAATGCTCTTCTTAATGAC 360
DB 332 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCAACAATGCTCTTCTTAATGAC 391

OY 361 CAAACTCTGAATTTTAAATCCCTTCAACCTTGACCAACCCATGAGACCATCTGTG 420
DB 392 CAAACTCTGAATTTTAAATCCCTTCAACCTTGACCAACCCATGAGACCATCTGTG 451

OY 421 CCCATCTGATTTATATATTTGTGATATTTTGCATCATCATAGTGAATGCACTA 480
DB 452 CCCATCTGATTTATATATTTGTGATATTTTGCATCATCATAGTGAATGCACTA 511

OY 481 CTGATTTTATCAGGATCTGGCAAGTAGAAGAAAGAACCAATCTGAAGTGAT 540
DB 512 CTGATTTTATCAGGATCTGGCAAGTAGAAGAAAGAACCAATCTGAAGTGAT 571

OY 541 GAGCTGAAGATTAAGTGAAGAAATCATGATCAATGAAATGGCATCCCTCTGATCCC 600
DB 572 GAGCTGAAGATTAAGTGAAGAAATCATGATCAATGAAATGGCATCCCTCTGATCCC 631

OY 601 CTGACATGAAGGG-GGGCATTAATGATGCTTCATG 638
DB 632 CTGACATGAAGGGGAGGCGCATTAATGATGCTTCATG 670

RESULT 23
BD077436 848 bp DNA linear PAT 27-AUG-2002
LOCUS 5'EST of secreted protein expressed in muscles and other mesodermal tissues.
DEFINITION
ACCESSION BD077436 GI:22623039
VERSION BD077436.1
KEYWORDS JP 2001512016-A/22.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 848)
AUTHORS Edwards,J.B.D.M., Duclert,A. and Lacroix,B.
TITLE 5'EST of secreted protein expressed in muscles and other mesodermal tissues
JOURNAL Patent: JP 2001512016-A 22 21-AUG-2001;
GENSET
COMMENT OS Homo sapiens (human)
PN JP 2001512016-A/22
PD 21-AUG-2001
PR 31-JUL-1998 JP 2000505295
PR 01-AUG-1997 US 08/905134

PI JEAN BAPTISTE DUMAS MILNE EDWARDS,AYMERIC DUCLERT,BRUNO PI
LACROIX
PC C12N15/09,C12N15/09,C07K14/47,C12M1/00,C12N15/00,C12N15/00 CC
Von Heijne matrix
CC score 10.7
CC seg LMLFFLVTAIHA/EL
FH Key Location/Qualifiers
FT sig_peptide 32..73.
Location/Qualifiers
1..848
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 98.0%; Score 625; DB 6; Length 848;
Best Local Similarity 99.2%; Pred. No. 9.3e-162;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

OY 1 ATGTTGGGCTGCTCTTTTCTGTCGTCATTCATGCTGAACTCTGTCACCAAGT 60
DB 32 ATGTTGGGCTGCTCTTTTCTGTCGTCATTCATGCTGAACTCTGTCACCAAGT 91

OY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 120
DB 92 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 151

OY 121 GCGTGGATACCAATGAAGATACCTCTCAAGCGATGGTGGTCTTCTCCATGAGAAA 180
DB 152 GCGTGGATACCAATGAAGATACCTCTCAAGCGATGGTGGTCTTCTCCATGAGAAA 211

OY 181 GTTCCCAACAGAGAGCAAGAAATTTCCATGTCCTACTTTGCAATGTAAACCAAGG 240
DB 212 GTTCCCAACAGAGAGCAAGAAATTTCCATGTCCTACTTTGCAATGTAAACCAAGG 271

OY 241 GTATCATCTGTTTGTGTTACAGACCCTTCAAAAAATCACAACCTTCTGCTGTTGAG 300
DB 272 GTATCATCTGTTTGTGTTACAGACCCTTCAAAAAATCACAACCTTCTGCTGTTGAG 331

OY 301 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCAACAATGCTCTTCTTAATGAC 360
DB 332 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCAACAATGCTCTTCTTAATGAC 391

OY 361 CAAACTCTGAATTTTAAATCCCTTCAACCTTGACCAACCCATGAGACCATCTGTG 420
DB 392 CAAACTCTGAATTTTAAATCCCTTCAACCTTGACCAACCCATGAGACCATCTGTG 451

OY 421 CCCATCTGATTTATATATTTGTGATATTTTGCATCATCATAGTGAATGCACTA 480
DB 452 CCCATCTGATTTATATATTTGTGATATTTTGCATCATCATAGTGAATGCACTA 511

OY 481 CTGATTTTATCAGGATCTGGCAAGTAGAAGAAAGAACCAATCTGAAGTGAT 540
DB 512 CTGATTTTATCAGGATCTGGCAAGTAGAAGAAAGAACCAATCTGAAGTGAT 571

OY 541 GAGCTGAAGATTAAGTGAAGAAATCATGATCAATGAAATGGCATCCCTCTGATCCC 600
DB 572 GAGCTGAAGATTAAGTGAAGAAATCATGATCAATGAAATGGCATCCCTCTGATCCC 631

OY 601 CTGACATGAAGGG-GGGCATTAATGATGCTTCATG 638
DB 632 CTGACATGAAGGGGAGGCGCATTAATGATGCTTCATG 670

RESULT 24
BD077737 848 bp DNA linear PAT 27-AUG-2002
LOCUS 5'EST of secretory protein in brain.
DEFINITION
ACCESSION BD077737
VERSION BD077737.1 GI:22623340
KEYWORDS JP 2001512015-A/22.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS
TITLE
JOURNAL

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 848)
Edwards,J.B.D.M., Duclert,A. and Lacroix,B.
5'EST of secretory protein in brain
Patent: JP 2001512015-A 22 21-AUG-2001;
GENSET

COMMENT
OS
PN
PD
PF
PR
PI
PC
CC
CC
FH
FT

Homo sapiens (human)
JP 2001512015-A/22
21-AUG-2001
31-JUL-1998 JP 2000505293
01-AUG-1997 US 08/905223
JEAN BAPTISTE DUMAS MILNE EDWARDS,AYMERIC DUCLERT,BRUNO PI LACROIX
C12N15/09,C07K14/47,C12M1/00,C12P21/02,C12Q1/68,C12N15/00 CC
Von Heijne matrix
score 10.7
seq LMLPLVTAIHA/EL
Key Location/Qualifiers
sig_peptide 32.73.
Location/Qualifiers

FEATURES
source

1..848
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 98.0%; Score 625; DB 6; Length 848;
Best Local Similarity 99.2%; Pred. No. 9.3e-162;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

OY 1 ATGTTGGCTGCTCTTTTCTGGTGAAGTCCATCATGCTGAAGTCTGTCAACCAAGT 60
DB 32 ATGTTGGCTGCTCTTTTCTGGTGAAGTCCATCATGCTGAAGTCTGTCAACCAAGT 91
OY 61 GCAGAAATGCTTTAAAGTGAAGTCTGTATCAGAACAGCTCTGGAGATTAAGCATAT 120
DB 92 GCAGAAATGCTTTAAAGTGAAGTCTGTATCAGAACAGCTCTGGAGATTAAGCATAT 151
OY 121 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGCTTCTCCATGAGAAA 180
DB 152 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGCTTCTCCATGAGAAA 211
OY 181 GTTCCCAACAGAGAACAGAAATTTCCATGCTCTTCTTGAATGAACCCAGAG 240
DB 212 GTTCCCAACAGAGAACAGAAATTTCCATGCTCTTCTTGAATGAACCCAGAG 271
OY 241 GTATCATCTGTTGTGTTTACAGACCTTCAAAAATCACAACCTTCTGCTGTAG 300
DB 272 GTATCATCTGTTGTGTTTACAGACCTTCAAAAATCACAACCTTCTGCTGTAG 331
OY 301 GTGCAATCAGCCATGAAGATGAACAGACCGGATCAACATGCTTCTTCTAATGAC 360
DB 332 GTGCAATCAGCCATGAAGATGAACAGACCGGATCAACATGCTTCTTCTAATGAC 391
OY 361 CAAACTCTGAATTTTAAATCCCTTCCACACTTGACACCCATGAGCCCATCTGTG 420
DB 392 CAAACTCTGAATTTTAAATCCCTTCCACACTTGACACCCATGAGCCCATCTGTG 451
OY 421 CCCATCTGATTTATATATTTGTGTGATATTTTGCATCATCATAGTGAATGACTA 480
DB 452 CCCATCTGATTTATATATTTGTGTGATATTTTGCATCATCATAGTGAATGACTA 511
OY 481 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAAGAAAGAAAGCAATCTGAAGTGA 540
DB 512 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAAGAAAGCAATCTGAAGTGA 571
OY 541 GACGCTGAAGATAGTGAAGAAAGCAATCAATGAAATGCGATCCCTCTGATCC 600
DB 572 GACGCTGAAGATAGTGAAGAAAGCAATCAATGAAATGCGATCCCTCTGATCC 631
OY 601 CTGCAATGAAGG-GGGCATTTATGATGCTTCTCATG 638
|||||

DB 632 CTGCAATGAAGGAGGATATTAATGATGCTTCTCATG 670

RESULT 25
BD085880
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

BD085880 848 bp DNA linear PAT 27-AUG-2002
Blongation cDNA of secretory protein.
BD085880
BD085880.1 GI:22631490
JP 2001523453-A/22.
Homo sapiens (human)
Homo sapiens

REFERENCE
AUTHORS
TITLE
JOURNAL

Bouguetelert,L., Duclert,A. and Edwards,J.B.D.M.
1 (bases 1 to 848)
Bouguetelert,L., Duclert,A. and Edwards,J.B.D.M.
Patent: JP 2001523453-A 22 27-NOV-2001;
GENSET

COMMENT

OS
PN
PD
PF
PR
PR
09-FEB-1998 US 60/074121,13-APR-1998 US 60/081563 PR
10-AUG-1998 US 60/096116,04-SEP-1998 US 60/099273 PI
BOUGUETELERT,AYMERIC DUCLERT,JEAN BAPTISTE DUMAS MILNE PI EDWARDS
PC C12N15/09,C12N15/09,C07K14/47,C07K16/18,C12N1/15,C12N1/19,PC
C12N1/21,
PC C12N5/10,C12P21/02,C12Q1/68,C12N15/00,C12N5/00,C12N15/00 CC
Von Heijne matrix
FH Key Location/Qualifiers
FT sig_peptide 32.73.
Location/Qualifiers

FEATURES
source

1..848
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 98.0%; Score 625; DB 6; Length 848;
Best Local Similarity 99.2%; Pred. No. 9.3e-162;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

OY 1 ATGTTGGCTGCTCTTTTCTGGTGAAGTCCATCATGCTGAAGTCTGTCAACCAAGT 60
DB 32 ATGTTGGCTGCTCTTTTCTGGTGAAGTCCATCATGCTGAAGTCTGTCAACCAAGT 91
OY 61 GCAGAAATGCTTTAAAGTGAAGTCTGTATCAGAACAGCTCTGGAGATTAAGCATAT 120
DB 92 GCAGAAATGCTTTAAAGTGAAGTCTGTATCAGAACAGCTCTGGAGATTAAGCATAT 151
OY 121 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGCTTCTCCATGAGAAA 180
DB 152 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGCTTCTCCATGAGAAA 211
OY 181 GTTCCCAACAGAGAACAGAAATTTCCATGCTCTTCTTGAATGAACCCAGAG 240
DB 212 GTTCCCAACAGAGAACAGAAATTTCCATGCTCTTCTTGAATGAACCCAGAG 271
OY 241 GTATCATCTGTTGTGTTTACAGACCTTCAAAAATCACAACCTTCTGCTGTAG 300
DB 272 GTATCATCTGTTGTGTTTACAGACCTTCAAAAATCACAACCTTCTGCTGTAG 331
OY 301 GTGCAATCAGCCATGAAGATGAACAGACCGGATCAACATGCTTCTTCTAATGAC 360
DB 332 GTGCAATCAGCCATGAAGATGAACAGACCGGATCAACATGCTTCTTCTAATGAC 391
OY 361 CAAACTCTGAATTTTAAATCCCTTCCACACTTGACACCCATGAGCCCATCTGTG 420
DB 392 CAAACTCTGAATTTTAAATCCCTTCCACACTTGACACCCATGAGCCCATCTGTG 451
OY 421 CCCATCTGATTTATATATTTGTGTGATATTTTGCATCATCATAGTGAATGACTA 480
|||||

Db 452 CCCATCTGGATTATTATATTGGTGTGATATTTGCATCATAGTTGCAATGCACTTA 511

Qy 481 CTGATTTTATCAGGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAAGTGGAT 540

Db 512 CTGATTTTATCAGGGATCTGGCAACGTADBARAAAGAACCACTCTGAAGTGGAT 571

Qy 541 GAGCGTAGATAAGTGTGAAACATGATCACAATGAAAAATGGCATCCCTCTGATCCC 600

Db 572 GAGCTGARATTAKTGTGAACAATGATCACAATGAAAAATGGCATCCCTCTGATCCC 631

Qy 601 CTGACATGAAGGG-GGGCATATTAAATGATGCTTCATG 638

Db 632 CTGACATGAAGGGAGGGGCATATTAAATGATGCTTCATG 670

| | | | | |
|------------|--|-------------|-----|--------|
| RESULT 26 | | | | |
| BD107926 | | | | |
| LOCUS | BD107926 | 848 bp | DNA | linear |
| DEFINITION | EST and encoded human protein. | | | |
| ACCESSION | BD107926 | | | |
| VERSION | BD107926.1 | GI:23202744 | | |
| KEYWORDS | JP 2002010789-A/3. | | | |
| SOURCE | Homo sapiens (human) | | | |
| ORGANISM | Homo sapiens | | | |
| | Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. | | | |
| REFERENCE | 1 (bases 1 to 848) | | | |
| AUTHORS | Edwards,J.B.D.M., Jobert,S. and Giordano,J.E. | | | |
| TITLE | EST and encoded human protein | | | |
| JOURNAL | Patent: JP 2002010789-A 3 15-JAN-2002; | | | |

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COMMENT
OS Homo sapiens (human)
PN JP 2002010789-A/3
PD 15-JAN-2002
PE 07-AUG-2000 JP 2000280989
PR 05-AUG-1999 US 60/147499
PI JEAN BAPTISTE DUMAS MILNE EDWARDS, SEVELIN JOBERT, JEAN EVE PI
GIORDANO
PC C12N15/09, C12N15/09, C07K14/47, C07K16/18, C12N1/15, C12N1/19, PC
C12N1/21,
PC C12N5/10, C12P21/02, C12P21/08, C12Q1/68, C12N15/00, C12N5/00, PC
C12N15/00
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| Best Local Similarity | 99.24; | Pred. No. 9.3e-162; | | |
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| | | | |
| Db | 92 | GCAGAAATGCTTTTAAAGTGAGACTTGTATCAGAACAGCTCTGGAGATAAAGCATAT | 151 |
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| QY | 121 | GCCTGGATACCAATGAAGATACCTCTCAAGCGATGTAGCTTCTCCATGAGAAA | 180 |
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| Db | 152 | GCCTGGATACCAATGAAGATACCTCTCAAGCGATGTAGCTTCTCCATGAGAAA | 211 |
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| OY | 241 | GATCATCTGGTTGTGTTACAGACCCTTCAAAAAATCACACCCCTTGCTGTGAG | 300 |
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| OY | 361 | CAAACCTGGAATTTTTAAAATCCCTTCACACTGCACCACCCATGACCATCTGTG | 420 |
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| OY | 421 | CCCATCTGGAATTATATATTGGTGTGATATTTCATCATCATAGTTGCAATGCACTA | 480 |
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| LOCUS | BD131408 | 848 bp | DNA | linear PAT 18-SEP-2002 |
| DEFINITION | cDNA encoding secretory protein. | | | |
| ACCESSION | BD131408 | | | |
| VERSION | BD131408.1 | GI:23226353 | | |
| KEYWORDS | JP 2002502605-A/22. | | | |
| SOURCE | Homo sapiens (human) | | | |
| ORGANISM | Homo sapiens | | | |
| | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. | | | |
| REFERENCE | 1 (bases 1 to 848) | | | |
| AUTHORS | Bougueleret, L., Duclet, A. and Edwards, J.B.D.M. | | | |
| TITLE | cDNA encoding secretory protein | | | |
| JOURNAL | Patent: JP 2002502605-A 22 29-JAN-2002; | | | |

COMMENT

OS Homo sapiens (human)
PN JP 2002502605-A/22

PF 09-FEB-1999 JP 2000530603
PR 09-FEB-1998 US 60/074121, 13-APR-1998 US 60/081563 PR
10-AUG-1998 US 60/096115, 04-SEP-1998 US 60/099273 PI LYDIE
BOUGUERET, AYMERIC DUCLERT, JEAN BAPTISTE DUMAS MILNE PI EDWARDS
PC C12N15/09, C12N15/09, C07K14/47, C07K16/18, C12M1/00, C12N1/15, PC
C12N1/19,
PC C12N1/21, C12N5/10, C12P21/02, C12Q1/68//G06F17/30, C12N15/00, PC

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| Best Local Similarity | 99.2%; | Pred. No. 9.3e-162; | | |
| Matches 634; Conservative | 4; | Mismatches 0; | Indels 1; | Gaps 1; |

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Qy 61 GCAGAAAATGCTTTAAAGTGAAGACTAGTATCAGAACAGCTCTGGAGATAAAGCATAT 120
Db 92 GCAGAAAATGCTTTAAAGTGAAGACTAGTATCAGAACAGCTCTGGAGATAAAGCATAT 151
Qy 121 GCGTGGATACCAATGAAGATACCTCTCAAGCGATGTAAGCTTTCTCCATGAGAAA 180
Db 152 GCGTGGATACCAATGAAGATACCTCTCAAGCGATGTAAGCTTTCTCCATGAGAAA 211
Qy 181 GTTCCCAACAGAGAACACAGAAATTTCCCATGTCCTACTTTCATGTAAACCGAGAG 240
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LOCUS Extended cDNA of secretory protein.
DEFINITION BD139270
ACCESSION BD139270.1 GI:23234215
VERSION JP 2002508182-A/22.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 848)
AUTHORS Bougueleret,L., Duclert,A. and Edwards,J.B.D.M.
TITLE Extended cDNA of secretory protein
JOURNAL Patent: JP 2002508182-A 22 19-MAR-2002;
GENSET

COMMENT
OS Homo sapiens (human)
PN JP 2002508182-A/22
PD 19-MAR-2002
PR 17-DEC-1998 JP 2000539136
PR 17-DEC-1997 US 60/069957,09-FEB-1998 US 60/074121 PR
13-APR-1998 US 60/081563,10-AUG-1998 US 60/096116 PI LYDIE
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PC C12N15/09,C12N15/09,C07K14/47,C07K16/18,C12N1/15,C12N1/19, PC
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Best Local Similarity 99.2%; Pred. No. 9.3e-162;
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Qy 1 ATGTGTGGCTGCTCTTTTCTGTGACTGCGCATTCATGTCGAACTCTGTCAACGAGT 60
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Qy 421 CCCATCTGATTAATTAATTTGTGTGATATTTTGATCATCATAGTTCATTTGCACTA 480
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DEFINITION BD203799
ACCESSION BD203799
VERSION BD203799.1 GI:33013569
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SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 848)
AUTHORS Edwards,J.B.D.M., Duclert,A. and Giordano,J.Y.
TITLE 5'EST and human protein encoded thereby
JOURNAL Patent: JP 2002511259-A 3 16-APR-2002;
GENSET

COMMENT
OS Homo sapiens (human)
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Copyright (c) 1993 - 2004 CompuGen Ltd.

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| 71 | 638 | 100.0 | 1346 | 13 | US-10-144-993-481 Sequence 481, App |
| 72 | 638 | 100.0 | 1346 | 13 | US-10-140-024-481 Sequence 481, App |
| 73 | 638 | 100.0 | 1346 | 13 | US-09-989-724-386 Sequence 386, App |
| 74 | 638 | 100.0 | 1346 | 13 | US-09-989-728-386 Sequence 386, App |
| 75 | 638 | 100.0 | 1346 | 13 | US-09-990-441-386 Sequence 386, App |
| 76 | 638 | 100.0 | 1346 | 13 | US-10-140-808-481 Sequence 481, App |
| 77 | 638 | 100.0 | 1346 | 13 | US-09-997-857-386 Sequence 386, App |
| 78 | 638 | 100.0 | 1346 | 13 | US-09-997-641-386 Sequence 386, App |
| 79 | 638 | 100.0 | 1346 | 13 | US-09-991-150-386 Sequence 386, App |
| 80 | 638 | 100.0 | 1346 | 13 | US-10-152-405-481 Sequence 481, App |
| 81 | 638 | 100.0 | 1346 | 13 | US-10-127-852A-481 Sequence 481, App |
| 82 | 638 | 100.0 | 1346 | 13 | US-10-127-900A-481 Sequence 481, App |
| 83 | 638 | 100.0 | 1346 | 13 | US-10-128-685A-481 Sequence 481, App |
| 84 | 638 | 100.0 | 1346 | 13 | US-10-131-820A-481 Sequence 481, App |
| 85 | 638 | 100.0 | 1346 | 13 | US-10-142-886-481 Sequence 481, App |
| 86 | 638 | 100.0 | 1346 | 13 | US-10-146-728-481 Sequence 481, App |
| 87 | 638 | 100.0 | 1346 | 13 | US-10-146-786-481 Sequence 481, App |

| | | | | | | |
|-----|-----|-------|------|----|--------------------|-------------------|
| 88 | 638 | 100.0 | 1346 | 13 | US-10-147-499-481 | Sequence 481, App |
| 89 | 638 | 100.0 | 1346 | 13 | US-10-157-798-481 | Sequence 481, App |
| 90 | 638 | 100.0 | 1346 | 15 | US-10-028-072-481 | Sequence 481, App |
| 91 | 638 | 100.0 | 1346 | 15 | US-10-121-049-481 | Sequence 481, App |
| 92 | 638 | 100.0 | 1346 | 15 | US-10-123-904-481 | Sequence 481, App |
| 93 | 638 | 100.0 | 1346 | 15 | US-10-140-470-481 | Sequence 481, App |
| 94 | 638 | 100.0 | 1346 | 15 | US-10-175-746-481 | Sequence 481, App |
| 95 | 638 | 100.0 | 1346 | 15 | US-10-176-918-481 | Sequence 481, App |
| 96 | 638 | 100.0 | 1346 | 15 | US-10-176-921-481 | Sequence 481, App |
| 97 | 638 | 100.0 | 1346 | 15 | US-10-137-865-481 | Sequence 481, App |
| 98 | 638 | 100.0 | 1346 | 15 | US-10-140-474-481 | Sequence 481, App |
| 99 | 638 | 100.0 | 1346 | 15 | US-10-142-431-481 | Sequence 481, App |
| 100 | 638 | 100.0 | 1346 | 15 | US-10-143-114-481 | Sequence 481, App |
| 101 | 638 | 100.0 | 1346 | 15 | US-10-140-002-481 | Sequence 481, App |
| 102 | 638 | 100.0 | 1346 | 15 | US-10-142-419-481 | Sequence 481, App |
| 103 | 638 | 100.0 | 1346 | 15 | US-10-123-262-481 | Sequence 481, App |
| 104 | 638 | 100.0 | 1346 | 15 | US-10-142-423-481 | Sequence 481, App |
| 105 | 638 | 100.0 | 1346 | 15 | US-10-121-050-481 | Sequence 481, App |
| 106 | 638 | 100.0 | 1346 | 15 | US-10-141-755-481 | Sequence 481, App |
| 107 | 638 | 100.0 | 1346 | 15 | US-10-143-032-481 | Sequence 481, App |
| 108 | 638 | 100.0 | 1346 | 15 | US-10-123-108-481 | Sequence 481, App |
| 109 | 638 | 100.0 | 1346 | 15 | US-10-123-236-481 | Sequence 481, App |
| 110 | 638 | 100.0 | 1346 | 15 | US-10-123-261-481 | Sequence 481, App |
| 111 | 638 | 100.0 | 1346 | 15 | US-10-140-921-481 | Sequence 481, App |
| 112 | 638 | 100.0 | 1346 | 15 | US-10-140-928-481 | Sequence 481, App |
| 113 | 638 | 100.0 | 1346 | 15 | US-10-121-045-481 | Sequence 481, App |
| 114 | 638 | 100.0 | 1346 | 15 | US-10-123-292-481 | Sequence 481, App |
| 115 | 638 | 100.0 | 1346 | 15 | US-10-123-903-481 | Sequence 481, App |
| 116 | 638 | 100.0 | 1346 | 15 | US-10-124-819-481 | Sequence 481, App |
| 117 | 638 | 100.0 | 1346 | 15 | US-10-124-822-481 | Sequence 481, App |
| 118 | 638 | 100.0 | 1346 | 15 | US-10-124-825-481 | Sequence 481, App |
| 119 | 638 | 100.0 | 1346 | 15 | US-10-160-498-481 | Sequence 481, App |
| 120 | 638 | 100.0 | 1346 | 15 | US-10-124-824-481 | Sequence 481, App |
| 121 | 638 | 100.0 | 1346 | 15 | US-10-127-825A-481 | Sequence 481, App |
| 122 | 638 | 100.0 | 1346 | 15 | US-10-127-829A-481 | Sequence 481, App |
| 123 | 638 | 100.0 | 1346 | 15 | US-10-127-835A-481 | Sequence 481, App |
| 124 | 638 | 100.0 | 1346 | 15 | US-10-127-839A-481 | Sequence 481, App |
| 125 | 638 | 100.0 | 1346 | 15 | US-10-128-693A-481 | Sequence 481, App |
| 126 | 638 | 100.0 | 1346 | 15 | US-10-131-813A-481 | Sequence 481, App |
| 127 | 638 | 100.0 | 1346 | 15 | US-10-131-818A-481 | Sequence 481, App |
| 128 | 638 | 100.0 | 1346 | 15 | US-10-131-823A-481 | Sequence 481, App |
| 129 | 638 | 100.0 | 1346 | 15 | US-10-131-824A-481 | Sequence 481, App |
| 130 | 638 | 100.0 | 1346 | 15 | US-10-131-830A-481 | Sequence 481, App |
| 131 | 638 | 100.0 | 1346 | 15 | US-10-131-837A-481 | Sequence 481, App |
| 132 | 638 | 100.0 | 1346 | 15 | US-10-137-872A-481 | Sequence 481, App |
| 133 | 638 | 100.0 | 1346 | 15 | US-10-147-502-481 | Sequence 481, App |
| 134 | 638 | 100.0 | 1346 | 15 | US-10-147-515-481 | Sequence 481, App |
| 135 | 638 | 100.0 | 1346 | 15 | US-10-147-517-481 | Sequence 481, App |
| 136 | 638 | 100.0 | 1346 | 15 | US-10-147-526-481 | Sequence 481, App |
| 137 | 638 | 100.0 | 1346 | 15 | US-10-121-041-481 | Sequence 481, App |
| 138 | 638 | 100.0 | 1346 | 15 | US-10-121-043-481 | Sequence 481, App |
| 139 | 638 | 100.0 | 1346 | 15 | US-10-121-047-481 | Sequence 481, App |
| 140 | 638 | 100.0 | 1346 | 15 | US-10-123-215-481 | Sequence 481, App |
| 141 | 638 | 100.0 | 1346 | 15 | US-10-123-902-481 | Sequence 481, App |
| 142 | 638 | 100.0 | 1346 | 15 | US-10-123-908-481 | Sequence 481, App |
| 143 | 638 | 100.0 | 1346 | 15 | US-10-123-910-481 | Sequence 481, App |
| 144 | 638 | 100.0 | 1346 | 15 | US-10-124-817-481 | Sequence 481, App |
| 145 | 638 | 100.0 | 1346 | 15 | US-10-124-819-481 | Sequence 481, App |
| 146 | 638 | 100.0 | 1346 | 15 | US-10-124-821-481 | Sequence 481, App |
| 147 | 638 | 100.0 | 1346 | 15 | US-10-124-823-481 | Sequence 481, App |
| 148 | 638 | 100.0 | 1346 | 15 | US-10-124-825-481 | Sequence 481, App |
| 149 | 638 | 100.0 | 1346 | 15 | US-10-124-827-481 | Sequence 481, App |
| 150 | 638 | 100.0 | 1346 | 15 | US-10-124-829-481 | Sequence 481, App |
| 151 | 638 | 100.0 | 1346 | 15 | US-10-124-831-481 | Sequence 481, App |
| 152 | 638 | 100.0 | 1346 | 15 | US-10-124-833-481 | Sequence 481, App |
| 153 | 638 | 100.0 | 1346 | 15 | US-10-124-835-481 | Sequence 481, App |
| 154 | 638 | 100.0 | 1346 | 15 | US-10-124-837-481 | Sequence 481, App |
| 155 | 638 | 100.0 | 1346 | 15 | US-10-124-839-481 | Sequence 481, App |
| 156 | 638 | 100.0 | 1346 | 15 | US-10-124-841-481 | Sequence 481, App |
| 157 | 638 | 100.0 | 1346 | 15 | US-10-124-843-481 | Sequence 481, App |
| 158 | 638 | 100.0 | 1346 | 15 | US-10-124-845-481 | Sequence 481, App |
| 159 | 638 | 100.0 | 1346 | 15 | US-10-124-847-481 | Sequence 481, App |
| 160 | 638 | 100.0 | 1346 | 15 | US-10-124-849-481 | Sequence 481, App |

DB 487 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAAGAACCAACCTCTGAAGTGAT 546
QY 541 GACGCTGAAGATAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCTGATCCC 600
DB 547 GACGCTGAAGATAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCTGATCCC 606
QY 601 CTGACATGAAGGGGGCATATTAATGATGCTTCATG 638
DB 607 CTGACATGAAGGGGGCATATTAATGATGCTTCATG 644

RESULT 508

US-10-140-927-481
; Sequence 481, Application US/10140927
; Publication No. US20040009548A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C180
; CURRENT APPLICATION NUMBER: US/10/140.927
; CURRENT FILING DATE: 2002-05-07
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 481
; LENGTH: 1346
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-140-927-481

Query Match 100.0%; Score 638; DB 16; Length 1346;
Best Local Similarity 100.0%; Pred. No. 2.9e-186; Indels 0; Gaps 0;
Matches 638; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTTGGCTGCTCTTTTCTGGTGAAGTCCATTCATGCTGAACCTCTGTCAACCAAGT 60
DB 7 ATGTTGGCTGCTCTTTTCTGGTGAAGTCCATTCATGCTGAACCTCTGTCAACCAAGT 66
QY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 120
DB 67 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 126
QY 121 GCGTGGATACCAATGAAGATACCTCTCAAGCGATGCTTTCTCCATGAGAAA 180
DB 127 GCGTGGATACCAATGAAGATACCTCTCAAGCGATGCTTTCTCCATGAGAAA 186
QY 181 GTTCCCAACAGAGAGCAAGAAATTTCCATGCTCTACTTTGCAATGTAAACCCAGAG 240
DB 187 GTTCCCAACAGAGAGCAAGAAATTTCCATGCTCTACTTTGCAATGTAAACCCAGAG 246
QY 241 GTATCATTTCTGTTGTGTGTACAGACCTTCAAAAAATCACACCTCTCTGCTGTGAG 300
DB 247 GTATCATTTCTGTTGTGTGTGTACAGACCTTCAAAAAATCACACCTCTCTGCTGTGAG 306
QY 301 GTGCAATCAGCCATGAAGATGAACAGAACCGGATCAACATGCTTTCTTAATGAC 360

DB 307 GTGCAATCAGCCATGAAGATGAACAGAACCGGATCAACATGCTTTCTTAATGAC 366
QY 361 CAACCTCGGAATTTTAAAAATCCCTTCCACCTTGACCAACCATGAGCAATCTGTG 420
DB 367 CAACCTCGGAATTTTAAAAATCCCTTCCACCTTGACCAACCATGAGCAATCTGTG 426
QY 421 CCCATCTGATTAATTAATTTGTGTGATATTTTGCATCATATAGTTGCAATGCACTA 480
DB 427 CCCATCTGATTAATTAATTTGTGTGATATTTTGCATCATATAGTTGCAATGCACTA 486
QY 481 CTGATTTATCAGGATCTGGCAACGTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
DB 487 CTGATTTATCAGGATCTGGCAACGTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 546
QY 541 GACGCTGAAGATAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCTGATCCC 600
DB 547 GACGCTGAAGATAAGTGTGAAAACATGATCACAATTGAAAATGGCATCCCTCTGATCCC 606
QY 601 CTGACATGAAGGGGGCATATTAATGATGCTTCATG 638
DB 607 CTGACATGAAGGGGGCATATTAATGATGCTTCATG 644

RESULT 509

US-10-147-536-481
; Sequence 481, Application US/10147536
; Publication No. US20040077064A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C349
; CURRENT APPLICATION NUMBER: US/10/147.536
; CURRENT FILING DATE: 2002-05-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 481
; LENGTH: 1346
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-147-536-481

Query Match 100.0%; Score 638; DB 17; Length 1346;
Best Local Similarity 100.0%; Pred. No. 2.9e-186; Indels 0; Gaps 0;
Matches 638; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTTGGCTGCTCTTTTCTGGTGAAGTCCATTCATGCTGAACCTCTGTCAACCAAGT 60
DB 7 ATGTTGGCTGCTCTTTTCTGGTGAAGTCCATTCATGCTGAACCTCTGTCAACCAAGT 66
QY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 120
DB 67 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 126
QY 121 GCGTGGATACCAATGAAGATACCTCTCAAGCGATGCTTTCTCCATGAGAAA 180
DB 127 GCGTGGATACCAATGAAGATACCTCTCAAGCGATGCTTTCTCCATGAGAAA 186

| | | | | | | | | | | | | | | |
|----|-----|------|--------|----------|----------|---------|---------|------------|---------------|--------------|---------|----|-------|-----|
| QY | 181 | GTTC | CCAA | CAG | AGAA | GCA | CAG | AAATTTCC | ATGTCT | TACTTTG | CAATGTA | CC | CAGAG | 240 |
| | | | | | | | | | | | | | | |
| DB | 187 | GTTC | CCAA | CAG | AGAA | GCA | CAG | AAATTTCC | ATGTCT | TACTTTG | CAATGTA | CC | CAGAG | 246 |
| QY | 241 | GTAT | CATTCT | GTGTG | GTAC | GAC | CCCTTCA | AAAAATCA | CACCCCTT | CTGTGTAG | | | | 300 |
| | | | | | | | | | | | | | | |
| DB | 247 | GTAT | CATTCT | GTGTG | GTAC | GAC | CCCTTCA | AAAAATCA | CACCCCTT | CTGTGTAG | | | | 306 |
| QY | 301 | GTGC | AATCAG | CCATAA | GAA | TGA | ACAA | CGGATCAA | ATGCCCTTCTTCT | TAATGAC | | | | 360 |
| | | | | | | | | | | | | | | |
| DB | 307 | GTGC | AATCAG | CCATAA | GAA | TGA | ACAA | CGGATCAA | ATGCCCTTCTTCT | TAATGAC | | | | 366 |
| QY | 361 | CAAA | CTCTG | GAATTTT | AAAAATCC | CTTCCA | CACTTG | CAACCA | CCCATG | GAACCATCTGTG | | | | 420 |
| | | | | | | | | | | | | | | |
| DB | 367 | CAAA | CTCTG | GAATTTT | AAAAATCC | CTTCCA | CACTTG | CAACCA | CCCATG | GAACCATCTGTG | | | | 426 |
| QY | 421 | CCCA | CTCG | ATTATTA | TATTTG | GTGTG | ATATTTG | CAATCAT | ATAGTTG | CAATTG | CACTA | | | 480 |
| | | | | | | | | | | | | | | |
| DB | 427 | CCCA | CTCG | ATTATTA | TATTTG | GTGTG | ATATTTG | CAATCAT | ATAGTTG | CAATTG | CACTA | | | 486 |
| QY | 481 | CTGA | TTTATC | AGGATCTG | GCAAGT | AGAA | GAACA | GAACCATCTG | AAGTGAT | | | | | 540 |
| | | | | | | | | | | | | | | |
| DB | 487 | CTGA | TTTATC | AGGATCTG | GCAAGT | AGAA | GAACA | GAACCATCTG | AAGTGAT | | | | | 546 |
| QY | 541 | GACG | CTGA | AGATA | AGTGTCA | AAACATG | ATCA | CAATTG | AAATGG | CAATCCCTCTG | ATCC | | | 600 |
| | | | | | | | | | | | | | | |
| DB | 547 | GACG | CTGA | AGATA | AGTGTCA | AAACATG | ATCA | CAATTG | AAATGG | CAATCCCTCTG | ATCC | | | 606 |
| QY | 601 | CTGA | CATGA | AGGGGGG | GCATATTA | TGATG | CTTCATG | 638 | | | | | | |
| | | | | | | | | | | | | | | |
| DB | 607 | CTGA | CATGA | AGGGGGG | GCATATTA | TGATG | CTTCATG | 644 | | | | | | |

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RESULT 510
US-10-133-013-205
; Sequence 205, Application US/10133013
; Publication No. US20030166903A1
; GENERAL INFORMATION:
; APPLICANT: Astromoff, Anna
; APPLICANT: Bandman, Olga
; APPLICANT: Cocks, Benjamin G.
; TITLE OF INVENTION: GENES ASSOCIATED WITH VASCULAR DISEASE
; FILE REFERENCE: PA-0049 US
; CURRENT APPLICATION NUMBER: US/10/133, 013
; CURRENT FILING DATE: 2002-04-25
; PRIOR APPLICATION NUMBER: 60/287, 067
; PRIOR FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 271
; SOFTWARE: PERL Program
; SEQ ID NO 205
; LENGTH: 1312
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030166903A1 2580580CBL1
US-10-133-013-205

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| | | | | |
|---------------------------|--------|---------------------|--------|-------------------|
| Query Match | 98.3%; | Score 627; | DB 15; | Length 1312; |
| Best Local Similarity | 99.8%; | Pred. No. 7.2e-183; | | |
| Matches 638; Conservative | 0; | Mismatches | 0; | Indels 1; Gaps 1; |

[illegible]

| | | | |
|----|-----|---|-----|
| Db | 129 | GCCTGGGATACCAATGAAGAAATCTCTTCAAAAGCATGTAGCTTTCTCCATGAGAAA | 188 |
| Qy | 181 | GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAACCCAGAG | 240 |
| Db | 189 | GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAACCCAGAG | 248 |
| Qy | 241 | GTATCATTCGTGTTTGTGTTACAGACCCCTTCAAAAAATCACAACCTTCTGCTGTTGAG | 300 |
| Db | 249 | GTATCATTCGTGTTTGTGTTACAGACCCCTTCAAAAAATCACAACCTTCTGCTGTTGAG | 308 |
| Qy | 301 | GTGCAATCAGCCATAAGAAATGAACAAGAACCGGATCAACAATGCTTTCTTCTAAATGAC | 360 |
| Db | 309 | GTGCAATCAGCCATAAGAAATGAACAAGAACCGGATCAACAATGCTTTCTTCTAAATGAC | 368 |
| Qy | 361 | CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCCATGGAACCATCTGTG | 420 |
| Db | 369 | CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCCATGGAACCATCTGTG | 428 |
| Qy | 421 | CCCATCTGATTATATATATTGTGTGATATTTTGCATCATCATAGTTGCCAATTGCACTA | 480 |
| Db | 429 | CCCATCTGATTATATATATTGTGTGATATTTTGCATCATCATAGTTGCCAATTGCACTA | 488 |
| Qy | 481 | CTGATTTTATCAGGATCTGCGCAAGCTAGAGAAAGAACCAAGAACCATCTGAAGTGAT | 540 |
| Db | 489 | CTGATTTTATCAGGATCTGCGCAAGCTAGAGAAAGAACCAAGAACCATCTGAAGTGAT | 548 |
| Qy | 541 | GACGCTGAAGATAGTGTGAAAAACATGATCAACAATTGAAAAATGCGATCCCTCTGATCCC | 600 |
| Db | 549 | GACGCTGAAGATAGTGTGAAAAACATGATCAACAATTGAAAAATGCGATCCCTCTGATCCC | 608 |
| Qy | 601 | CTGACATATGAAGG-GGGCATATTTAATGATGCTTCATG 638 | |
| Db | 609 | CTGACATATGAAGGCGGCATATTTAATGATGCTTCATG 647 | |

```

RESULT 511
US-10-372-876-17
; Sequence 17, Application US/10372876
; Publication No. US20030204071A1
; GENERAL INFORMATION:
; APPLICANT: Moore, Paul A. et al.
; TITLE OF INVENTION: 110 Human Secreted Proteins
; FILE REFERENCE: P2021P1
; CURRENT APPLICATION NUMBER: US/10/372,876
; CURRENT FILING DATE: 2003-02-26
; PRIOR APPLICATION NUMBER: 09/334,595
; PRIOR FILING DATE: 1999-06-17
; PRIOR APPLICATION NUMBER: PCT/US98/27059
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: 60/070,923
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,007
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,057
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,006
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,369
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,367
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,368
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,169
; PRIOR FILING DATE: 1997-12-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 17
; LENGTH: 1432
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-372-876-17

```

Query Match 98.3%; Score 627; DB 13; Length 1432;
Best Local Similarity 99.8%; Pred. No. 7.6e-183;
Matches 638; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

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QY 1 ATGTGTGCTGCTCTTTTCTGTGGAAGTCCATTCATGCTGAATCTGTCAACGAGT 60
    |||||||
DB 69 ATGTGTGCTGCTCTTTTCTGTGGAAGTCCATTCATGCTGAATCTGTCAACGAGT 128
QY 61 GCAGAAAATGCTTTAAAGTAGACTAGTATCAGAACAGCTCTGGAGATAAAGCATAT 120
    |||||||
DB 129 GCAGAAAATGCTTTAAAGTAGACTAGTATCAGAACAGCTCTGGAGATAAAGCATAT 188
QY 121 GCCTGGGATACCAATGAGAATACCTCTTCAAGCCATGCTTCTCCATGAGAAA 180
    |||||||
DB 189 GCCTGGGATACCAATGAGAATACCTCTTCAAGCCATGCTTCTCCATGAGAAA 248
QY 181 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTTCTTCTCAATGTAAACCAAGG 240
    |||||||
DB 249 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTTCTTCTCAATGTAAACCAAGG 308
QY 241 GTATCATTCGTGTTGTGTGTTACAGACCCCTTCAAAAATCACAACCCCTCTGTGAG 300
    |||||||
DB 309 GTATCATTCGTGTTGTGTGTTACAGACCCCTTCAAAAATCACAACCCCTCTGTGAG 368
QY 301 GTGCAATCAGCCATAGAAATGAAACAGAACCGGATCAACATGCTTCTTCTAAATGAC 360
    |||||||
DB 369 GTGCAATCAGCCATAGAAATGAAACAGAACCGGATCAACATGCTTCTTCTAAATGAC 428
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCATGAGCCATCTGTG 420
    |||||||
DB 429 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCATGAGCCATCTGTG 488
QY 421 CCCATCTGATTTATATATTTGTGTGATATTTTGCATCATCATAGTGCATTTGCACTA 480
    |||||||
DB 489 CCCATCTGATTTATATATTTGTGTGATATTTTGCATCATCATAGTGCATTTGCACTA 548
QY 481 CTGATTTTATCAGGATCTGCAACGTAGAGAAAGAAACAAGAACCACTCTGAAGTGAT 540
    |||||||
DB 549 CTGATTTTATCAGGATCTGCAACGTAGAGAAAGAAACAAGAACCACTCTGAAGTGAT 608
QY 541 GAGCTGAAGATAGTGTGAAACATGATCACAATGGAATGCAATCCCTCTGATCCC 600
    |||||||
DB 609 GAGCTGAAGATAGTGTGAAACATGATCACAATGGAATGCAATCCCTCTGATCCC 668
QY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCATG 638
    |||||||
DB 669 CTGACATGAAGGAGGGCATATTAATGATGCTTCATG 707
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RESULT 512

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US-10-097-065-17
; Sequence 17, Application US/10097065
; Publication No. US20030055236A1
; GENERAL INFORMATION:
; APPLICANT: Moore, Paul A. et al.
; TITLE OF INVENTION: 110 Human Secreted Proteins
; FILE REFERENCE: P2021P1
; CURRENT APPLICATION NUMBER: US/10/097,065
; PRIOR FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: PCT/US98/27059
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: 60/070,923
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,007
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,057
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,006
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,369
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,367
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; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,368
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,169
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,053
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,064
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,054
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,008
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,365
; PRIOR FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 1432
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-097-065-17
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Query Match 98.3%; Score 627; DB 15; Length 1432;
Best Local Similarity 99.8%; Pred. No. 7.6e-183;
Matches 638; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

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QY 1 ATGTGTGCTGCTCTTTTCTGTGGAAGTCCATTCATGCTGAATCTGTCAACGAGT 60
    |||||||
DB 69 ATGTGTGCTGCTCTTTTCTGTGGAAGTCCATTCATGCTGAATCTGTCAACGAGT 128
QY 61 GCAGAAAATGCTTTAAAGTAGACTAGTATCAGAACAGCTCTGGAGATAAAGCATAT 120
    |||||||
DB 129 GCAGAAAATGCTTTAAAGTAGACTAGTATCAGAACAGCTCTGGAGATAAAGCATAT 188
QY 121 GCCTGGGATACCAATGAGAATACCTCTTCAAGCCATGCTTCTCCATGAGAAA 180
    |||||||
DB 189 GCCTGGGATACCAATGAGAATACCTCTTCAAGCCATGCTTCTCCATGAGAAA 248
QY 181 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTTCTTCTCAATGTAAACCAAGG 240
    |||||||
DB 249 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTTCTTCTCAATGTAAACCAAGG 308
QY 241 GTATCATTCGTGTTGTGTGTTACAGACCCCTTCAAAAATCACAACCCCTCTGTGAG 300
    |||||||
DB 309 GTATCATTCGTGTTGTGTGTTACAGACCCCTTCAAAAATCACAACCCCTCTGTGAG 368
QY 301 GTGCAATCAGCCATAGAAATGAAACAGAACCGGATCAACATGCTTCTTCTAAATGAC 360
    |||||||
DB 369 GTGCAATCAGCCATAGAAATGAAACAGAACCGGATCAACATGCTTCTTCTAAATGAC 428
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCATGAGCCATCTGTG 420
    |||||||
DB 429 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCAACCAACCATGAGCCATCTGTG 488
QY 421 CCCATCTGATTTATATATTTGTGTGATATTTTGCATCATCATAGTGCATTTGCACTA 480
    |||||||
DB 489 CCCATCTGATTTATATATTTGTGTGATATTTTGCATCATCATAGTGCATTTGCACTA 548
QY 481 CTGATTTTATCAGGATCTGCAACGTAGAGAAAGAAACAAGAACCACTCTGAAGTGAT 540
    |||||||
DB 549 CTGATTTTATCAGGATCTGCAACGTAGAGAAAGAAACAAGAACCACTCTGAAGTGAT 608
QY 541 GAGCTGAAGATAGTGTGAAACATGATCACAATGGAATGCAATCCCTCTGATCCC 600
    |||||||
DB 609 GAGCTGAAGATAGTGTGAAACATGATCACAATGGAATGCAATCCCTCTGATCCC 668
QY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCATG 638
    |||||||
DB 669 CTGACATGAAGGAGGGCATATTAATGATGCTTCATG 707
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RESULT 513

US-09-892-877-22
; Sequence 22, Application US/09892877
; Publication No. US20030077809A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et. al.
; TITLE OF INVENTION: 97 Human secreted proteins
; FILE REFERENCE: P2028P1
; CURRENT APPLICATION NUMBER: US/09/892, 877
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/437, 658
; NUMBER OF SEQ ID NOS: 461
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 1447
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-892-877-22

Query Match 98.2%; Score 626.6; DB 10; Length 1447;
Best Local Similarity 99.7%; Pred. No. 1e-182;
Matches 637; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTGTGGCTCTTTTCTGTGAGTCCATTCATGCTGAATCTGTCAACGAGT 60
DB 77 ATGTGTGGCTCTTTTCTGTGAGTCCATTCATGCTGAATCTGTCAACGAGT 136
QY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAGCATAT 120
DB 137 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAGCATAT 196
QY 121 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGCTTTCTCCATGAGAAA 180
DB 197 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGCTTTCTCCATGAGAAA 256
QY 181 GTTCCCAACAGAGCAACAGAAATTTCCATGCTCTACTTGTCAATGTAAACGAGG 240
DB 257 GTTCCCAACAGAGCAACAGAAATTTCCATGCTCTACTTGTCAATGTAAACGAGG 316
QY 241 GTATCATTTCTGTTTGTGTTACAGACCTTCAAAAATCACACCTCTCTGCTTGA 300
DB 317 GTATCATTTCTGTTTGTGTTACAGACCTTCAAAAATCACACCTCTCTGCTTGA 376
QY 301 GTGCAATCAGCCATAGAATGAACAGAACCGATCAACATGCTTTCTTAAATGAC 360
DB 377 GTGCAATCAGCCATAGAATGAACAGAACCGATCAACATGCTTTCTTAAATGMC 436
QY 361 CAACTCTGAATTTTAAAAATCCCTCCACACTGACCAACCAATGAGCCCATCTGTG 420
DB 437 CAACTCTGAATTTTAAAAATCCCTCCACACTGACCAACCAATGAGCCCATCTGTG 496
QY 421 CCATCTGATTAATTAATTTGTGATATTTTGCATCATATAGTGAATGCACTA 480
DB 497 CCATCTGATTAATTAATTTGTGATATTTTGCATCATATAGTGAATGCACTA 556
QY 481 CTGATTTTATCAGGATCTGCAACGTAGAAGAAAGAAAGAAACCATCTGAATGAT 540
DB 557 CTGATTTTATCAGGATCTGCAACGTAGAAGAAAGAAAGAAACCATCTGAATGAT 616
QY 541 GACGCTGAAGATAAGTGAAGAAACATGCAATTTGAATGCAATCCCTCTGATCCC 600
DB 617 GACGCTGAAGATAAGTGAAGAAACATGCAATTTGAATGCAATCCCTCTGATCCC 676
QY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCAATG 638
DB 677 CTGACATGAAGGAGGAGGATATTAATGATGCTTCAATG 715

RESULT 514
US-09-948-783-22
; Sequence 22, Application US/09948783
; Publication No. US20030100051A1
; GENERAL INFORMATION:

APPLICANT: Ruben et. al.
; TITLE OF INVENTION: 97 Human secreted proteins
; FILE REFERENCE: P2028P2
; CURRENT APPLICATION NUMBER: US/09/948, 783
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/231, 846
; PRIOR FILING DATE: 2000-09-11
; PRIOR APPLICATION NUMBER: 09/892, 877
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: 09/437, 658
; PRIOR FILING DATE: 1999-11-10
; PRIOR APPLICATION NUMBER: PCT/US99/09847
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/085, 093
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/085, 094
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/085, 105
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/085, 180
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/085, 927
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085, 906
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085, 924
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085, 922
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085, 923
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085, 925
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085, 928
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085, 920
; PRIOR FILING DATE: 1998-05-18
; NUMBER OF SEQ ID NOS: 465
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 1447
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-948-783-22

Query Match 98.2%; Score 626.6; DB 10; Length 1447;
Best Local Similarity 99.7%; Pred. No. 1e-182;
Matches 637; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTGTGGCTCTTTTCTGTGAGTCCATTCATGCTGAATCTGTCAACGAGT 60
DB 77 ATGTGTGGCTCTTTTCTGTGAGTCCATTCATGCTGAATCTGTCAACGAGT 136
QY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAGCATAT 120
DB 137 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGAACAGCTCTGGAGATAAGCATAT 196
QY 121 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGCTTTCTCCATGAGAAA 180
DB 197 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGCTTTCTCCATGAGAAA 256
QY 181 GTTCCCAACAGAGCAACAGAAATTTCCATGCTCTACTTGTCAATGTAAACGAGG 240
DB 257 GTTCCCAACAGAGCAACAGAAATTTCCATGCTCTACTTGTCAATGTAAACGAGG 316
QY 241 GTATCATTTCTGTTTGTGTTACAGACCTTCAAAAATCAACCCCTCTGCTTGA 300
DB 317 GTATCATTTCTGTTTGTGTTACAGACCTTCAAAAATCAACCCCTCTGCTTGA 376
QY 301 GTGCAATCAGCCATAGAATGAACAGAACCGATCAACATGCTTTCTTAAATGAC 360

| | | | |
|----|-----|---|-----|
| Db | 377 | GTGCAATCAGCCCATTAAGAATGAACAAGAACCGGATCAACAATGCCCTTTCTTAAATGMC | 436 |
| Oy | 361 | CAAACTCTGGAATTTTAAAAATCCCTTCACACACTTGCAACCACCATGGAACCCATCTGNS | 420 |
| Db | 437 | CAAACTCTGGAATTTTAAAAATCCCTTCACACACTTGCAACCACCATGGAACCCATCTGNS | 496 |
| Oy | 421 | CCCATCTGATTATATATTGTCGTGATATTTTGCATCATCATAGTTGCAATTGCACTA | 480 |
| Db | 497 | CCCATCTGATTATATATTGTCGTGATATTTTGCATCATCATAGTTGCAATTGCACTA | 556 |
| Oy | 481 | CTGATTTTATCAGGATCTGGCAACCTAGAAGAAAGAACAAAGAACCATCTGAAGTGAT | 540 |
| Db | 557 | CTGATTTTATCAGGATCTGGCAACCTAGAAGAAAGAACAAAGAACCATCTGAAGTGAT | 616 |
| Oy | 541 | GACGCTGAAGATAAGTGTGAAAACATGATCACAATTTGAAAATGGCATCCCTCTGATCCC | 600 |
| Db | 617 | GACGCTGAAGATAAGTGTGAAAACATGATCACAATTTGAAAATGGCATCCCTCTGATCCC | 676 |
| Oy | 601 | CTGGAACATGAAGGG-GGGCATATTTAATGATGCGCTTCATG 638 | |
| Db | 677 | CTGGAACATGAAGGGAGGGGCATATTTAATGATGCGCTTCATG 715 | |

RESULT 515

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US-09-903-190-27
; Sequence 27, Application US/09903190
; Publication No. US20030162176A1
;
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
; APPLICANT: Duclert, Aymeric
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: Complementary DNAs
; FILE REFERENCE: GENSET.021A
; CURRENT APPLICATION NUMBER: US/09/903,190
; PRIOR FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: US/09/247,155A
; PRIOR FILING DATE: 1999-02-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/074,121
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/081,563
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-13
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/096,116
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/099,273
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-10-04
; NUMBER OF SEQ ID NOS: 182
; SOFTWARE: Patent.pm
; SEQ ID NO 27
;
; LENGTH: 848
;
; TYPE: DNA
; ORGANISM: Homo Sapiens
;
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 32..73
; OTHER INFORMATION: Von Heljne matrix
US-09-903-190-27

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| | | | | |
|-----------------------|--------------|---------------------|---------------|-------------|
| Query Match | 98.0%; | Score 625; | DB 10; | Length 848; |
| Best Local Similarity | 99.2%; | Pred. No. 2.3e-182; | | |
| Matches 634; | Conservative | 4; | Mismatches 0; | Indels 1; |
| | | | | Gaps 1; |

[illegible]

| | | | |
|----|-----|---|-----|
| Oy | 181 | GTTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTACTTGCAATGTAACCCAGAGG | 240 |
| Db | 212 | GTTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTACTTGCAATGTAACCCAGAGG | 271 |
| Oy | 241 | GTCATCATTCTGGTTTGTGTGTACAGACCCTTGAAAAATCACACCCTTCTGCTGTAG | 300 |
| Db | 272 | GTCATCATTCTGGTTTGTGTGTACAGACCCTTGAAAAATCACACCCTTCTGCTGTAG | 331 |
| Oy | 301 | GTCGAATCAGCCATAAAGATGAACAAGAACCGGATCAACAATGCCCTTCTTTCTAAATGAC | 360 |
| Db | 332 | GTCGAATCAGCCATAAAGATGAACAAGAACCGGATCAACAATGCCCTTCTTTCTAAATGAC | 391 |
| Oy | 361 | CAAACCTGGAATTTTTAAAAATCCCTTCCACACTTGCAACCACCATGAGCCCATCTGTG | 420 |
| Db | 392 | CAAACCTGGAATTTTTAAAAATCCCTTCCACACTTGCAACCACCATGAGCCCATCTGTG | 451 |
| Oy | 421 | CCCATCTGGAATTAATATATTGTGTGATATTGTGCATCATCATAGTGGCAATTGCACTA | 480 |
| Db | 452 | CCCATCTGGAATTAATATATTGTGTGATATTGTGCATCATCATAGTGGCAATTGCACTA | 511 |
| Oy | 481 | CTGATTTTATCAGGGATCTGGAACGTAGAAGAAAGAACAAAGAACCATCTGAAGTGAT | 540 |
| Db | 512 | CTGATTTTATCAGGGATCTGGAACGTADARARAAGAAACAAGAACCATCTGAAGTGAT | 571 |
| Oy | 541 | GACCGTGAAGATAAGTGTGAAAACATGATCACAAATTGAAAATGGCAATCCCTCTGATCCC | 600 |
| Db | 572 | GACCGTGAARATAAKTGTGAAAACATGATCACAAATTGAAAATGGCAATCCCTCTGATCCC | 631 |
| Oy | 601 | CTGGAATGAAAGG- GGGCATATTATGATGCCCTTCATG | 638 |
| Db | 632 | CTGGAATGAAAGGAGGGCATATTATGATGCCCTTCATG | 670 |

RESULT 516

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US-10-319763-27
; Sequence 27, Application US/10319763
; Publication No. US20030144490A1
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
; APPLICANT: Duclet, Aymeric
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS
; FILE REFERENCE: G-031.US04.DIV
; CURRENT APPLICATION NUMBER: US/10/319,763
; CURRENT FILING DATE: 2002-12-10
; PRIOR APPLICATION NUMBER: 60/066,677
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/069,957
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/074,121
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: 60/081,563
; PRIOR FILING DATE: 1998-04-13
; PRIOR APPLICATION NUMBER: 60/096,116
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: 60/099,273
; PRIOR FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 229
; SOFTWARE: Patent.pm
; SEQ ID NO 27
; LENGTH: 848
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 32..73
; OTHER INFORMATION: Von Heijne matrix
US-10-319-763-27

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| | | | | |
|---------------------------|-------|---------------------|-----------|-------------|
| Query Match | 98.0% | Score 625; | DB 15; | Length 848; |
| Best Local Similarity | 99.2% | Pred. No. 2.3e-182; | | |
| Matches 634; Conservative | 4; | Mismatches 0; | Indels 1; | Gaps 1; |

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QY 1 ATGTTGTGGCTGCTCTTTTCTGTTGAGTCCATTCATGCTGAAGTCTGTCAACCAAGT 60
DB 32 ATGTTGTGGCTGCTCTTTTCTGTTGAGTCCATTCATGCTGAAGTCTGTCAACCAAGT 91
QY 61 GCAGAAAATGCTTTTAAAGTAGAGTATGATCAGAACAGCTCTGGAGATAAGCATAT 120
DB 92 GCAGAAAATGCTTTTAAAGTAGAGTATGATCAGAACAGCTCTGGAGATAAGCATAT 151
QY 121 GCTTGGGATACCAATGAAGATCTCTTCAAGGATGTAGCTTTCTCCATGAGAAA 180
DB 152 GCTTGGGATACCAATGAAGATCTCTTCAAGGATGTAGCTTTCTCCATGAGAAA 211
QY 181 GTTCCCAACAGAGAACAAAGAAATTTCCCATGTCCTACTTGTCAATGTAAACCAAGG 240
DB 212 GTTCCCAACAGAGAACAAAGAAATTTCCCATGTCCTACTTGTCAATGTAAACCAAGG 271
QY 241 GTATCATTTCTGTTGTGTTGTTACAGACCCCTTCAAAAATCAACCCCTTCTGTTGAG 300
DB 272 GTATCATTTCTGTTGTGTTGTTACAGACCCCTTCAAAAATCAACCCCTTCTGTTGAG 331
QY 301 GTGCAATCAGCCATTAAGATGAACAGAACCCGATCAACATGCTTTCTTAAATGAC 360
DB 332 GTGCAATCAGCCATTAAGATGAACAGAACCCGATCAACATGCTTTCTTAAATGAC 391
QY 361 CAAACTCTGAATTTTAAATCCCTTCCACACTTGCAACCAACCAAGCCATCTGTG 420
DB 392 CAAACTCTGAATTTTAAATCCCTTCCACACTTGCAACCAACCAAGCCATCTGTG 451
QY 421 CCCATCTGATTTATTAATTTGTTGATATTTTGCATCATATGATGCAATGCACTA 480
DB 452 CCCATCTGATTTATTAATTTGTTGATATTTTGCATCATATGATGCAATGCACTA 511
QY 481 CTGATTTTATCAGGATCTGCAACGTAAGAAAGAAACCAATCTGAAGTGAT 540
DB 512 CTGATTTTATCAGGATCTGCAACGTAADAAAGAAACCAATCTGAAGTGAT 571
QY 541 GACGCTGAAGATAGTGTGAAGAAACATGATCACAATGAAAATGGCATCCCTGTGATCCC 600
DB 572 GACGCTGAAGATAGTGTGAAGAAACATGATCACAATGAAAATGGCATCCCTGTGATCCC 631
QY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCATG 638
DB 632 CTGACATGAAGGAGGGCATATTAATGATGCTTCATG 670

RESULT 517
US-10-372-876-122
; Sequence 122, Application US/10372876
; Publication No. US20030204071A1
; GENERAL INFORMATION:
; APPLICANT: Moore, Paul A. et al.
; TITLE OF INVENTION: 110 Human Secreted Proteins
; FILE REFERENCE: P2021P1
; CURRENT APPLICATION NUMBER: US/10/372,876
; CURRENT FILING DATE: 2003-02-26
; PRIOR APPLICATION NUMBER: 09/334,595
; PRIOR FILING DATE: 1999-06-17
; PRIOR APPLICATION NUMBER: PCT/US98/27059
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: 60/070,923
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,007
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,057
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,006
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,369
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,367
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,368
; PRIOR FILING DATE: 1997-12-19
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; PRIOR APPLICATION NUMBER: 60/068,169
; PRIOR FILING DATE: 1997-12-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 122
; LENGTH: 1356
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1231)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-372-876-122

Query Match 96.4%; Score 615; DB 13; Length 1356;
Best Local Similarity 99.7%; Pred. No. 3.8e-179;
Matches 637; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

QY 1 ATGTTGTGGCTGCTCTTTTCTGTTGAGTCCATTCATGCTGAAGTCTGTCAACCAAGT 60
DB 18 ATGTTGTGGCTGCTCTTTTCTGTTGAGTCCATTCATGCTGAAGTCTGTCAACCAAGT 77
QY 61 GCAGAAAATGCTTTTAAAGTAGAGTATGATCAGAACAGCTCTGGAGATAAGCATAT 120
DB 78 GCAGAAAATGCTTTTAAAGTAGAGTATGATCAGAACAGCTCTGGAGATAAGCATAT 137
QY 121 GCTTGGGATACCAATGAAGATCTCTTCAAGGATGTAGCTTTCTCCATGAGAAA 180
DB 138 GCTTGGGATACCAATGAAGATCTCTTCAAGGATGTAGCTTTCTCCATGAGAAA 197
QY 181 GTTCCCAACAGAGAACAAAGAAATTTCCCATGTCCTACTTGTCAATGTAAACCAAGG 240
DB 198 GTTCCCAACAGAGAACAAAGAAATTTCCCATGTCCTACTTGTCAATGTAAACCAAGG 256
QY 241 GTATCATTTCTGTTGTGTTGTTACAGACCCCTTCAAAAATCAACCCCTTCTGTTGAG 300
DB 257 GTATCATTTCTGTTGTGTTGTTACAGACCCCTTCAAAAATCAACCCCTTCTGTTGAG 316
QY 301 GTGCAATCAGCCATTAAGATGAACAGAACCCGATCAACATGCTTTCTTAAATGAC 360
DB 317 GTGCAATCAGCCATTAAGATGAACAGAACCCGATCAACATGCTTTCTTAAATGAC 376
QY 361 CAAACTCTGAATTTTAAATCCCTTCCACACTTGCAACCAACCAAGCCATCTGTG 420
DB 377 CAAACTCTGAATTTTAAATCCCTTCCACACTTGCAACCAACCAAGCCATCTGTG 436
QY 421 CCCATCTGATTTATTAATTTGTTGATATTTTGCATCATATGATGCAATGCACTA 480
DB 437 CCCATCTGATTTATTAATTTGTTGATATTTTGCATCATATGATGCAATGCACTA 496
QY 481 CTGATTTTATCAGGATCTGCAACGTAAGAAAGAAACCAATCTGAAGTGAT 540
DB 497 CTGATTTTATCAGGATCTGCAACGTAAGAAAGAAACCAATCTGAAGTGAT 556
QY 541 GACGCTGAAGATAGTGTGAAGAAACATGATCACAATGAAAATGGCATCCCTGTGATCCC 600
DB 557 GACGCTGAAGATAGTGTGAAGAAACATGATCACAATGAAAATGGCATCCCTGTGATCCC 616
QY 601 CTGACATGAAGG-GGGCATATTAATGATGCTTCATG 638
DB 617 CTGACATGAAGGAGGGCATATTAATGATGCTTCATG 655

RESULT 518
US-10-097-065-122
; Sequence 122, Application US/10097065
; Publication No. US20030055236A1
; GENERAL INFORMATION:
; APPLICANT: Moore, Paul A. et al.
; TITLE OF INVENTION: 110 Human Secreted Proteins
; FILE REFERENCE: P2021P1
; CURRENT APPLICATION NUMBER: US/10/097,065
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OM nucleic - nucleic search, using sw model

Run on: June 6, 2004, 10:39:20 ; Search time 1611.72 Seconds
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Title: US-09-989-724-386_COPY_7_644

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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 26

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 80%
Maximum Match 100%
Listing first 65000 summaries

- Database : EST.*
- 1: em_estba:*
 - 2: em_esthum:*
 - 3: em_estin:*
 - 4: em_estmu:*
 - 5: em_estov:*
 - 6: em_estpl:*
 - 7: em_estro:*
 - 8: em_hic:*
 - 9: gb_est1:*
 - 10: gb_est2:*
 - 11: gb_hic:*
 - 12: gb_est3:*
 - 13: gb_est4:*
 - 14: gb_est5:*
 - 15: em_estfun:*
 - 16: em_estom:*
 - 17: em_gss_hum:*
 - 18: em_gss_inu:*
 - 19: em_gss_pln:*
 - 20: em_gss_vtc:*
 - 21: em_gss_fun:*
 - 22: em_gss_mam:*
 - 23: em_gss_mus:*
 - 24: em_gss_pro:*
 - 25: em_gss_rtd:*
 - 26: em_gss_phg:*
 - 27: em_gss_vxl:*
 - 28: gb_gss1:*
 - 29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB | ID | Description |
|------------|-------|-------------|--------|----|----------|--------------------|
| 1 | 627 | 98.3 | 669 | 29 | AY399636 | AY399636 Homo sapi |
| 2 | 623 | 97.6 | 870 | 12 | BI760941 | BI760941 603043142 |
| 3 | 622.4 | 97.6 | 792 | 12 | BG400845 | BG400845 602464068 |
| 4 | 619.4 | 97.1 | 663 | 14 | CB139945 | CB139945 K-EST0193 |

| | | | | | | |
|----|-------|------|------|----|----------|--------------------|
| 5 | 609 | 95.5 | 639 | 14 | CB137859 | CB137859 K-EST0190 |
| 6 | 605.2 | 94.9 | 866 | 12 | BG429618 | BG429618 602501304 |
| 7 | 604 | 94.7 | 855 | 12 | BG427247 | BG427247 602494304 |
| 8 | 599.8 | 94.0 | 804 | 12 | BG429705 | BG429705 602493709 |
| 9 | 598 | 93.7 | 780 | 12 | BG429174 | BG429174 602498032 |
| 10 | 593 | 92.9 | 791 | 12 | BG400319 | BG400319 602464526 |
| 11 | 591.6 | 92.7 | 850 | 12 | BG430955 | BG430955 602500255 |
| 12 | 586 | 91.8 | 808 | 12 | BG399473 | BG399473 602441206 |
| 13 | 585.8 | 91.8 | 736 | 12 | BG399402 | BG399402 602441161 |
| 14 | 584.8 | 91.7 | 859 | 12 | BG427839 | BG427839 602501524 |
| 15 | 584.4 | 91.6 | 677 | 12 | BG427745 | BG427745 602497114 |
| 16 | 584.4 | 91.6 | 782 | 12 | BG433974 | BG433974 602497274 |
| 17 | 580.2 | 90.9 | 978 | 12 | BI762437 | BI762437 603048828 |
| 18 | 577 | 90.4 | 607 | 14 | CB125058 | CB125058 K-EST0173 |
| 19 | 575 | 90.3 | 888 | 12 | BG400513 | BG400513 602464748 |
| 20 | 571.4 | 89.6 | 1081 | 12 | BM811234 | BM811234 AGENCOURT |
| 21 | 562 | 88.1 | 678 | 12 | BG429011 | BG429011 602501924 |
| 22 | 549 | 86.1 | 602 | 12 | BG432624 | BG432624 602500789 |
| 23 | 546.2 | 85.6 | 801 | 12 | BG428217 | BG428217 602498872 |
| 24 | 546.2 | 85.6 | 884 | 12 | BG399975 | BG399975 602442028 |
| 25 | 541 | 84.8 | 735 | 9 | AV653898 | AV653898 AV653898 |
| 26 | 518.8 | 81.3 | 669 | 29 | AY399637 | AY399637 Pan trogl |

ALIGNMENTS

RESULT 1
AY399636
LOCUS
DEFINITION Homo sapiens HCM0290 gene, VIRTUAL TRANSCRIPT, partial sequence,
genomic survey sequence.
ACCESSION AY399636 GI:39755625
VERSION
KEYWORDS
SOURCE GSS.
ORGANISM Homo sapiens (human)
Homo sapiens
Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarival,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,
Adams,M.D. and Cargill,M.
TITLE Inferring nonneutral evolution from human-chimp-mouse orthologous
gene trios
JOURNAL Science 302 (5652), 1960-1963 (2003)
PUBMED 14671302
REFERENCE 2 (bases 1 to 669)
AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarival,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,
Adams,M.D. and Cargill,M.
TITLE Direct Submission
JOURNAL Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
COMMENT This sequence was made by sequencing genomic exons and ordering
them based on alignment.
FEATURES
source location/Qualifiers
1..669
/organism="Homo sapiens"
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/db_xref="taxon:9606"
<1..>669
/locus_tag="HCM0290"
ORIGIN
Query Match 98.3%; Score 627; DB 29; Length 669;
Best Local Similarity 99.8%; Pred. No. 1.6e-163;
Matches 638; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
CY 1 ATGTTGTGCTGCTCTTTTCTGTGACTGCATTCATGCTGAAGTCTGTCAACAGGT 60
|||||

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Db      1 ATGTGTCGCTCTCTTTTCTGTGACATGCTCATGCTGAACCTGTGCAACAGGT 60
QY      61 GCAGAAATATGCTTTTAAAGTGAAGCTTAGTATCAAGAACAGCTCTGGAGATTAAGCATAT 120
Db      61 GCAGAAATATGCTTTTAAAGTGAAGCTTAGTATCAAGAACAGCTCTGGAGATTAAGCATAT 120
QY      121 GCCTGGGATACCAATGAAGATACCTCTTCAAGCGATGTGACTTTCTCCATGAGAAA 180
Db      121 GCCTGGGATACCAATGAAGATACCTCTTCAAGCGATGTGACTTTCTCCATGAGAAA 180
QY      181 GTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCTTCTTGTCAATGTAAACCCAGAGG 240
Db      181 GTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCTTCTTGTCAATGTAAACCCAGAGG 240
QY      241 GTATCATTTGTTGTTGTGTACAGACCCCTTCAAAAATCAACCCCTTCTGCTGTGAG 300
Db      241 GTATCATTTGTTGTTGTGTACAGACCCCTTCAAAAATCAACCCCTTCTGCTGTGAG 300
QY      301 GTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACAATGCTTCTTCTTAATGAC 360
Db      301 GTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACAATGCTTCTTCTTAATGAC 360
QY      361 CAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGACACCCCATGAGACCATCTG 420
Db      361 CAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGACACCCCATGAGACCATCTG 420
QY      421 CCCATCTGGAATTTATATATTTGTGTGATTTTGTGATCATCATAGTTGCAATTGCACTA 480
Db      421 CCCATCTGGAATTTATATATTTGTGTGATTTTGTGATCATCATAGTTGCAATTGCACTA 480
QY      481 CTGATTTTATCAGGAGATCTGCAACGTAGAAGAAAGAAACCAACCATCTGAAGTGAT 540
Db      481 CTGATTTTATCAGGAGATCTGCAACGTAGAAGAAAGAAACCAACCATCTGAAGTGAT 540
QY      541 GACGCTGAAGATTAAGTGTGAACAATGATCACAATGAAAATGGCATCCCTCTGATCCC 600
Db      541 GACGCTGAAGATTAAGTGTGAACAATGATCACAATGAAAATGGCATCCCTCTGATCCC 600
QY      601 CTGACATGAAGGG-GGGCATATTAATGATGCTTCATG 638
Db      601 CTGACATGAAGGGAGGGCATATTAATGATGCTTCATG 639

RESULT 2
LOCUS   B1760941      870 bp      mRNA      linear      EST 25-SEP-2001
DEFINITION 603043142F1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5183554 5',
            B1760941
            mRNA sequence.
ACCESSION B1760941.1 GI:15752519
VERSION   B1760941.1
KEYWORDS  EST.
SOURCE    Homo sapiens (human)
            Homo sapiens
            Homo sapiens
            BUKARYOTA; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 870)
            NIH-MGC http://mgs.nci.nih.gov/.
            National Institutes of Health, Mammalian Gene Collection (MGC)
            Unpublished (1999)
            Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Life Technologies, Inc.
            cDNA Library Preparation: Life Technologies, Inc.
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LNL at:
            http://image.llnl.gov
            Plate: L14M11458 row: c column: 11
            High quality sequence stop: 844.
            Location/Qualifiers
                1..870
                /organism="Homo sapiens"
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/db_xref="taxon:9606"
/clone="IMAGE:5183554"
/lab_host="DH10B"
/clone_11b="NIH_MGC_116"
/note="Organ: pooled colon, kidney, stomach; Vector:
pCMV-SPORT6; site_1: NotI; site_2: EcoRV (destroyed); RNA
source anonymous pool of 3 colons, age 26 yo male, 49 yo
female, 71 yo male colon; 46 yo male kidney, and pool of 2
stomachs, 62 yo male and 70 yo female. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.4 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
023. Note: this is a NIH_MGC Library."
```

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Query Match 97.6%; Score 623; DB 12; Length 870;
Best Local Similarity 99.8%; Pred. No. 2.2e-162;
Matches 634; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
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QY      5 TGTGGCTGCTCTTTTCTGTGATCTGCCATTCATGCTGAACCTGTCAACCAAGTGCAG 64
Db      12 TGTGGCTGCTCTTTTCTGTGATCTGCCATTCATGCTGAACCTGTCAACCAAGTGCAG 71
QY      65 AAATGCTTTTAAAGTGAAGCTTAATATCAAGACAGCTCTGGAGATTAAGCATATGCT 124
Db      72 AAATGCTTTTAAAGTGAAGCTTAATATCAAGACAGCTCTGGAGATTAAGCATATGCT 131
QY      125 GGGATACCAATGAAGATACCTCTTCAAGCGATGTAGCTTCTCCATGAGAAAGTTC 184
Db      132 GGGATACCAATGAAGATACCTCTTCAAGCGATGTAGCTTCTCCATGAGAAAGTTC 191
QY      185 CCAACAGAGAGCAACAGAAATTTCCATGTCTTCTTGTCAATGTAAACCCAGAGGTAT 244
Db      192 CCAACAGAGAGCAACAGAAATTTCCATGTCTTCTTGTCAATGTAAACCCAGAGGTAT 251
QY      245 CATCTGTTGTGTGTACAGACCCCTTCAAAAATCAACACCTTCTGCTGTGAGTGC 304
Db      252 CATCTGTTGTGTGTGTACAGACCCCTTCAAAAATCAACACCTTCTGCTGTGAGTGC 311
QY      305 AATCAGCCATTAAGATGAACAAGAACCGGATCAACAATGCTTCTTCTAATGACCAA 364
Db      312 AATCAGCCATTAAGATGAACAAGAACCGGATCAACAATGCTTCTTCTAATGACCAA 371
QY      365 CTCTGGAATTTTAAATAATCCCTTCCACACTTGCAACCAACCATGAGACCATCTG 424
Db      372 CTCTGGAATTTTAAATAATCCCTTCCACACTTGCAACCAACCATGAGACCATCTG 431
QY      425 TCTGATTTATATATTTGTGTGATTTTGTGATCATCATATGTTGCAATTGCACTACTGA 484
Db      432 TCTGATTTATATATTTGTGTGATTTTGTGATCATCATATGTTGCAATTGCACTACTGA 491
QY      485 TTTTATCAGGATCTGGCAACGTAGAAGAAAGAAAGAACCATCTGAAGTGAAGAG 544
Db      492 TTTTATCAGGATCTGGCAACGTAGAAGAAAGAAAGAACCATCTGAAGTGAAGAG 551
QY      545 CTGAAGATTAAGTGAAGAAACATGATCACAATTTGAAGATGCGATCCCTCTGATCCCTGG 604
Db      552 CTGAAGATTAAGTGAAGAAACATGATCACAATTTGAAGATGCGATCCCTCTGATCCCTGG 611
QY      605 ACATGAAGGG-GGGCATATTAATGATGCTTCATG 638
Db      612 ACATGAAGGGGCGCATATTAATGATGCTTCATG 646
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RESULT 3
LOCUS   BG400845      792 bp      mRNA      linear      EST 12-MAR-2001
DEFINITION 602464068F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4592296 5',
            BG400845
            mRNA sequence.
ACCESSION BG400845
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VERSION BG400845.1 GI:13294293
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 792)
NIH-MGC http://mgs.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
JOURNAL Contact: Robert Strausberg, Ph.D.
TITLE Email: c9apbs-remail.nih.gov
AUTHORS Tissue Procurement: CLONTECH Laboratories, Inc.
CDNA Library Preparation: CLONTECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: LLC1330 row: 9 column: 17
High quality sequence stop: 784.
Location/Qualifiers
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/organism="Homo sapiens"
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/clone="IMAGE:4592296"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH MGC 75"
/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site_1:
SfiI (ggccgcctggcc); Site_2: SfiI (ggccatctggcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGCGCATTTATGCC-3' and 3' adaptor sequence:
5'-ATCTAGAGCGCGAGCGCGGACATG-dt(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC library."

ORIGIN
Query Match 97.6%; Score 622.4; DB 12; Length 792;
Best local Similarity 99.4%; Pred. No. 3.2e-162;
Matches 636; Conservative 0; Mismatches 1; Indels 3; Gaps 1;

QY 1 ATGTTGTGGCTGCTCTTTTCTGTGTACTGCCATTCATGCTGAACCTGTCAACCAAGT 60
Db 32 ATGTTGTGGCTGCTCTTTTCTGTGTACTGCCATTCATGCTGAACCTGTCAACCAAGT 91
QY 61 GCAGAAATGCTTTAAAGTGAGACTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 120
Db 92 GCAGAAATGCTTTAAAGTGAGACTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 151
QY 121 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGTAAGCTTTCTCCATGAGAAA 180
Db 152 GCCTGGATACCAATGAAGATACCTCTCAAGCGATGTAAGCTTTCTCCATGAGAAA 211
QY 181 GTTCCCAACAGAGAACAGAAATTTCCCATGTCTTACTTTGCAATGTAACCCAGAG 240
Db 212 GTTCCCAACAGAGAACAGAAATTTCCCATGTCTTACTTTGCAATGTAACCCAGAG 271
QY 241 GTATCATTTCTGTTGTGTTTACAGACCTTCAAAAAATCACAACCTCTGCTGTAG 300
Db 272 GTATCATTTCTGTTGTGTTTACAGACCTTCAAAAAATCACAACCTCTGCTGTAG 331
QY 301 GTGCAATCAGCCATAGATGAACAGACCGGATCAACAATGCTTTCTTAATGAC 360
Db 332 GTGCAATCAGCCATAGATGAACAGACCGGATCAACAATGCTTTCTTAATGAC 391
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACACCAACCATGATCTGTG 420
Db 392 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACACCAACCATGATCTGTG 451

QY 421 CCCATCTGATTTATTTATTTGTTGATATTTTGCATCATAGTTCATTTGCACCTA 480
Db 452 CCCATCTGATTTATTTATTTGTTGTTGATATTTTGCATCATAGTTCATTTGCACCTA 511
QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAAAGAACCATCTGAAGTGAT 540
Db 512 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAAAGAACCATCTGAAGTGAT 571
QY 541 GAGCTGAAGATAGTGTGAAAAACATGATCACAATTGAAAATGGCATCCCTCTGATCCC 600
Db 572 GAGCTGAAGATAGTGTGAAAAACATGATCACAATTGAAAATGGCATCCCTCTGATCCC 631
QY 601 CTGACATGAGAGG---GGCATATTATGATGCTTCAT 637
Db 632 CTGACATGAGAGGAGGCGGCATATTATGATGCTTCAT 671

RESULT 4
CB139945
LOCUS
DEFINITION K-EST0193043 L4SNU368s1 Homo sapiens cDNA clone L4SNU368s1-5-H10
5', mRNA sequence.
ACCESSION CB139945
VERSION CB139945.1 GI:28113403
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 663)
AUTHORS Kim, N.S., Hahn, Y., Oh, J.H., Lee, J.Y., Ahn, H.Y., Chu, M.Y., Kim, M.R.,
Oh, K.J., Cheong, J.B., Sohn, H.Y., Kim, J.M., Park, H.S., Kim, S. and
Kim, Y.S.
21C Frontier Korean EST Project 2001
Unpublished (2002)
CONTACT: Kim YS
Genome Research Center
Korea Research Institute of Bioscience & Biotechnology
52 Boeun-dong Yuseong-gu, Daejeon 305-333, South Korea
Tel: +82-42-860-4470
Fax: +82-42-860-4409
Email: yongsung@mail.krdb.re.kr
Plate: 5 row: H column: 10
High quality sequence stop: 663.
Location/Qualifiers
FEATURES
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1..663
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/cell_line="SNV-368"
/lab_host="Top10P"
/clone_lib="Top10P"
/note="Organ: Liver; Vector: pCNS-D2; Site_1: BclRI;
Site_2: NotI; The poly (A)+ RNA was dephosphorylated with
bacterial alkaline phosphatase (BAP) and then dephosphorylated
with tobacco acid pyrophosphatase (TAP). The dephosphorylated
intact mRNA was ligated with DNA-RNA linker including
BclRI site by treatment of T4 RNA ligase and the first
strand cDNA was synthesized from oligo dt-selected mRNA by
priming with dt-tailed vector. The dt-tailed vector was
adjusted to have about 60nt. The cDNA vector was
circularized with B. coli DNA ligase after digestion of
BclRI which site is also included in vector. An RNA strand
converted to a DNA strand by Okayama-Berg method. The
obtained cDNA vectors were used for transformation of
competent cells B. coli Top10P' by electroporation method.
The cDNA libraries constructed by this method are
full-length enriched cDNA library. After analyzing and
sequencing about 2,000 - 3,000 colonies in original cDNA

library, the abundant cDNAs were selected and amplified by PCR reaction using vector region primer including T7 promoter as 5' primer and N(drr)14 as 3' primer. The PCR products were used as template for synthesis of biotinylated single stranded RNA by in vitro transcription reaction. The synthesized RNA probes were hybridized with antisense single stranded cDNAs prepared from original library and incubated with avidin-gel. After removing DNA-RNA hybrids by centrifuge, the subtracted cDNA libraries were constructed by transformation of the remaining DNA into competent cells *E. coli* Top10F' with electroporation method."

ORIGIN

| | | | | |
|---------------------------|--------|---------------------|-----------|-------------|
| Query Match | 97.14; | Score 619.4; | DB 14; | Length 663; |
| Best Local Similarity | 99.74; | Pred. No. 2.1e-161; | | |
| Matches 631; Conservative | 0; | Mismatches 1; | Indels 1; | Gaps 1; |

| | | | | | |
|----|-----|-------------------------------|-------------------------------|----------------------|-----|
| OY | 1 | ATGTTGTGGCTGCTCTTTTCTTGTTGTA | CTGCCATTATGCTGA | CTCTGTCAACGAGT | 60 |
| DB | 31 | ATGTTGTGGCTGCTCTTTTCTTGTTGTA | CTGCCATTATGCTGA | CTCTGTCAACGAGT | 90 |
| OY | 61 | GCAGAAAATGCTTTTAAAGTGAGA | CTTAGTATCAGAACAGCT | CTGGGAGATAAAGCATAT | 120 |
| DB | 91 | GCAGAAAATGCTTTTAAAGTGAGA | CTTAGTATCAGAACAGCT | CTGGGAGATAAAGCATAT | 150 |
| OY | 121 | GCCTGGGATACCAATGAAGATAC | CTTCAAGCGATGTTAGCTTTCT | CCATGAGAAA | 180 |
| DB | 151 | GCCTGGGATACCAATGAAGATAC | CTTCAAGCGATGTTAGCTTTCT | CCATGAGAAA | 210 |
| OY | 181 | GTTCCCAACAGAGAACCAAGAAATTT | CCATGCTTA | CTTTGCAATGTAACCCAGAG | 240 |
| DB | 211 | GTTCCCAACAGAGAACCAAGAAATTT | CCATGCTTA | CTTTGCAATGTAACCCAGAG | 270 |
| OY | 241 | GTATCATTTCTGTTTGTTGTTACAGAC | CCCTTCAAAAAATCACACCCTT | CTGCTGTTGAG | 300 |
| DB | 271 | GTATCATTTCTGTTTGTTGTTACAGAC | CCCTTCAAAAAATCACACCCTT | CTGCTGTTGAG | 330 |
| OY | 301 | GTGCAATCAGCCATAGAATGAAACAAGAA | CCGATCAACAATGCTTTCTTAAATGAC | | 360 |
| DB | 331 | GTGCAATCAGCCATAGAATGAAACAAGAA | CCGATCAACAATGCTTTCTTAAATGAC | | 390 |
| OY | 361 | CAAACTCTGAATTTTAAAAATCCCTT | CCACACTTGACCA | CCCATGGA | 420 |
| DB | 391 | CAAACTCTGAATTTTAAAAATCCCTT | CCACACTTGACCA | CCCATGGA | 450 |
| OY | 421 | CCCATCTGATTATTATATTTGGTGTGAT | TAATTTTGCAATCATATAGTTGCAATTG | CACATA | 480 |
| DB | 451 | CCCATCTGATTATTATATTTGGTGTGAT | TAATTTTGCAATCATATAGTTGCAATTG | CACATA | 510 |
| OY | 481 | CTGATTTTATCAGGGATCTGGCAACGT | AGAAAGAACAAAGAACCATCTGAAGTGAT | | 540 |
| DB | 511 | CTGATTTTATCAGGGATCTGGCAACGT | AGAAAGAACAAAGAACCATCTGAAGTGAT | | 570 |
| OY | 541 | GACGCTGAAGATTAAGTGTGAAAAACAT | GTATCACAATTGAAAAATGGCATCCCTCT | GTATCCC | 600 |
| DB | 571 | GACGCTGAAGATTAAGTGTGAAAAACAT | GTATCACAATTGAAAAATGGCATCCCTCT | GTATCCC | 630 |
| OY | 601 | CTGACATG-AAGGGGGGATATTAATGAT | GCC | 632 | |
| DB | 631 | CTGACATGAAAGGAGGCAATTAATGAT | GCC | 663 | |

RESULT 5

| | | | | | |
|------------|--------------------------|--------------|------|--------------------------|-----------------|
| LOCUS | CB137859 | 639 bp | mRNA | linear | EST 29-JAN-2003 |
| DEFINITION | K-EST0190636 IASNTJ368s1 | Homo sapiens | CDNA | clone IASNTJ368s1-11-F08 | |
| | 5' mRNA sequence. | | | | |
| ACCESSION | CB137859 | | | | |
| VERSION | CB137859.1 | GI:28108763 | | | |
| KEYWORDS | EST. | | | | |
| SOURCE | Homo sapiens | (human) | | | |
| ORGANISM | Homo sapiens | | | | |

REFERENCE AUTHORS

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 639)
Kim,N.S., Hahn,Y.-, Oh,J.H., Lee,J.-Y., Ahn,H.-Y., Chu,M.-Y., Kim,M.-R., Oh,K.-J., Cheong,J.E., Sohn,H.-Y., Kim,J.M., Park,H.S., Kim,S. and Kim,Y.S.

TITLE
JOURNAL

21C Frontier Korean EST Project 2001
Unpublished (2002)
Contact: Kim YS

COMMENT

Genome Research Center
Korea Research Institute of Bioscience & Biotechnology
52 Boeun-dong Yuseong-gu, Daejeon 305-333, South Korea

FEATURES

Email: yongsung@email.kribb.re.kr
Plate: 11 row: F column: 08
High quality sequence stop: 639.

Source

1. .639
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/lab_host="Top10P"
/clone_lib="L4SN036881"
/note="Organ: Liver; Vector: pCNS-D2; Site_1: EcoRI; Site_2: NotI; The poly (A) + RNA was dephosphorylated with bacterial alkaline phosphatase (BAP) and then decapped with tobacco acid pyrophosphatase (TAP). The decapped intact mRNA was ligated with DNA-RNA linker including EcoRI site by treatment of T4 RNA ligase and the first strand cDNA was synthesized from oligo dT-selected mRNA by priming with dT-tailed vector. The dT-tailed vector was adjusted to have about 60nt. The cDNA vector was circularized with E. coli DNA ligase after digestion of EcoRI which site is also included in vector. An RNA strand converted to a DNA strand by Okayama-Berg method. The obtained cDNA vectors were used for electroporation of competent cells E. coli Top10P' by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library. After analyzing and sequencing about 2,000 - 3,000 colonies in original cDNA library, the abundant cDNAs were selected and amplified by PCR reaction using vector region primer including T7 promoter as 5' primer and N(dt)14 as 3' primer. The PCR products were used as template for synthesis of biotinylated single stranded RNA by in vitro transcription reaction. The synthesized RNA probes were hybridized with antisense single stranded cDNAs prepared from original library and incubated with avidin-gel. After removing DNA-RNA hybrids by centrifuge, the subtracted cDNA libraries were constructed by transformation of the remaining DNA into competent cells E. coli Top10P' with electroporation method."

ORIGIN

| | | | | |
|-----------------------|-----------------|---------------------|-----------|-------------|
| Query Match | 95.54; | Score 609; | DB 14; | Length 639; |
| Best Local Similarity | 100.04; | Pred. No. 1.7e-158; | | |
| Matches 609; | Conservative 0; | Mismatches 0; | Indels 0; | Gaps 0; |

Oy 1 ATGTTGTGGCTGCCTTTTTTTCGTGTAAGTCCCATTCATGCTGAACCTCTGTCAACCAGGT 60
|||
|||
Dd 31 ATGTTGTGGCTGCCTTTTTTTCGTGTAAGTCCCATTCATGCTGAACCTCTGTCAACCAGGT 90
|||
|||
Oy 61 GCAGAAATGCTTTTAAAGTAGACTTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 120
|||
|||
Dd 91 GCAGAAATGCTTTTAAAGTAGACTTAGTATCAGAACAGCTCTGGAGATTAAGCATAT 150
|||
|||
Oy 121 GCGTGATACCAATGAGAATACTCTTCMAAGCAGTGTAGCTTTCTCCATGAGAAA 180

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Db      151  GCGTGGATACCAATGAGAAATCTCTTCAAGAGATGTAAGTCTTCCATGAGAAAA 210
Qy      181  GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTTGTGCAATGTAAACCAAGAG 240
Db      211  GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTTGTGCAATGTAAACCAAGAG 270
Qy      241  GTATCATTTCTGTTGTGTACAGACCTTCAAAATCAACACCTTCTGCTGTAG 300
Db      271  GTATCATTTCTGTTGTGTACAGACCTTCAAAATCAACACCTTCTGCTGTAG 330
Qy      301  GTGCAATCAGCCATAAGATGAACAGAACCGGATCAACATGCTTCTTCTAAATGAC 360
Db      331  GTGCAATCAGCCATAAGATGAACAGAACCGGATCAACATGCTTCTTCTAAATGAC 390
Qy      361  CAAACTCTGGAATTTTAAATCCCTTCCACACTTGACACCAACCAATGAG 420
Db      391  CAAACTCTGGAATTTTAAATCCCTTCCACACTTGACACCAACCAATGAG 450
Qy      421  CCCATCTGATTAATATATTTGGTGTGATATTTTGCATCATATGTAATGACTA 480
Db      451  CCCATCTGATTAATATATTTGGTGTGATATTTTGCATCATATGTAATGACTA 510
Qy      481  CTGATTTTATCAGGATCTGCGCAACGTAGAAGAAACAAGAACCATCTGAATGAT 540
Db      511  CTGATTTTATCAGGATCTGCGCAACGTAGAAGAAACAAGAACCATCTGAATGAT 570
Qy      541  GACGCTGAAGATAGTGTGAAGACATGATCACAATGAAATGGATCCCTCTGATCC 600
Db      571  GACGCTGAAGATAGTGTGAAGACATGATCACAATGAAATGGATCCCTCTGATCC 630
Qy      601  CTGACATG 609
Db      631  CTGACATG 639
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RESULT 6
LOCUS    BG429618      866 bp      mRNA      linear      EST 14-MAR-2001
DEFINITION
        BG429618      602501304P1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4614937 5',
        mRNA sequence.
ACCESSION
        BG429618      GI:13336124
VERSION   BG429618.1  GI:13336124
KEYWORDS
        Homo sapiens (human)
SOURCE    Homo sapiens
          Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
ORGANISM  Homo sapiens
          NIH-MGC http://mgs.nci.nih.gov/.
          National Institutes of Health, Mammalian Gene Collection (MGC)
          Unpublished (1999)
          Contact: Robert Strausberg, Ph.D.
          Email: cgaabs-remail.nih.gov
          Tissue Procurement: CLONTECH Laboratories, Inc.
          cDNA Library Preparation: CLONTECH Laboratories, Inc.
          cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
          DNA Sequencing by: Incyte Genomics, Inc.
          Clone distribution: MGC clone distribution information can be
          found through the I.M.A.G.E. Consortium/LNL at:
          http://image.lnl.gov
          Plate: LNCM1367 row: g column: 02
          High quality sequence stop: 707.
          Location/Qualifiers
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            /clone="IMAGE:4614937"
            /lab_host="DH10B (T1 phage-resistant)"
            /clone_lib="NIH_MGC_75"
            /note="Organ: Kidney; Vector: pDNR-LIB (Clontech); Site_1:
            SfiI (ggcgctcgcc); Site_2: SfiI (ggccattatggc); 5' and
```

3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGCCATTATGCC-3' and 3' adaptor sequence: 5'-ATTCTAGAGCGCGAGCGCGGACATG-dt(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.5-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC library."

Query Match 94.9%; Score 605.2; DB 12; Length 866;
Best Local Similarity 99.1%; Pred. No. 2e-157;
Matches 630; Conservative 0; Mismatches 3; Indels 3; Gaps 2;

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Qy      5  TGTGCTGCTCTTTTCTGTGATGCTCCATTCATGCTGTAAGTCTGTGACAGGTGAG 64
Db      35  TGTGCTGCTCTTTTCTGTGATGCTCCATTCATGCTGTAAGTCTGTGACAGGTGAG 94
Qy      65  AAAATGCTTTTAAAGTGAAGCTTAGATCAGAACAGCTCTGGAGATTAAGCATATGCT 124
Db      95  AAAATGCTTTTAAAGTGAAGCTTAGATCAGAACAGCTCTGGAGATTAAGCATATGCT 154
Qy      125  GGGATACCAATGAAGAAATACCTCTTCAAAAGCGATGTGCTTCTCCATGAGAAAGTTC 184
Db      155  GGGATACCAATGAAGAAATACCTCTTCAAAAGCGATGTGCTTCTCCATGAGAAAGTTC 214
Qy      185  CCAACAGAGAGCAACAGAAATTTCCCATGTCTTCTTGTCAATGTAAACCAAGAGGTAT 244
Db      215  CCAACAGAGAGCAACAGAAATTTCCCATGTCTTCTTGTCAATGTAAACCAAGAGGTAT 274
Qy      245  CATTCTGCTTGTGTGTTACAGACCTTCAAAAATACACCCCTTCTGCTGTGAGGTGC 304
Db      275  CATTCTGCTTGTGTGTTACAGACCTTCAAAAATACACCCCTTCTGCTGTGAGGTGC 334
Qy      305  AATCAGCCATTAAGATGAACAAGAACCGGATCAACAAATGCTTCTTCTAAATGACCAA 364
Db      335  AATCAGCCATTAAGATGAACAAGAACCGGATCAACAAATGCTTCTTCTAAATGACCAA 394
Qy      365  CTCTGGAATTTTAAATCCCTTCCACACTTGACACCAACCATGAGACCATCTGTGCCA 424
Db      395  CTCTGGAATTTTAAATCCCTTCCACACTTGACACCAACCATGAGACCATCTGTGCCA 454
Qy      425  TCTGATTAATTAATTTGTGTGATATTTTGCATCATATGTTGCAATGCACTACTGA 484
Db      455  TCTGATTAATTAATTTGTGTGATATTTTGCATCATATGTTGCAATGCACTACTGA 514
Qy      485  TTTTATCAGGATCTGCGCAACGTAGAAGAAACAAGAACCATCTGAAGTGATGACG 544
Db      515  TTTTATCAGGATCTGCGCAACGTAGAAGAAACAAGAACCATCTGAAGTGATGACG 574
Qy      545  CTGAAGATAAGTGAAGAAACATGATCACAATGAAATGGCATCCCTCTGATCCCTGG 604
Db      575  CTGAAGATAAGTGAAGAAACATGATCACAATGAAATGGCATCCCTCTGAT-CCCTGG 633
Qy      605  ACATGAAGG--GGGATATTAAATGACCTTCATG 638
Db      634  ACATGAAGGCGGAGGATATTATGATGACCTTCATG 669
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RESULT 7
LOCUS    BG427247      855 bp      mRNA      linear      EST 14-MAR-2001
DEFINITION
        BG427247      602494304P1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4608048 5',
        mRNA sequence.
ACCESSION
        BG427247      GI:13333753
VERSION   BG427247.1  GI:13333753
KEYWORDS
        EST.
SOURCE    Homo sapiens (human)
          Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
ORGANISM  Homo sapiens
          NIH-MGC http://mgs.nci.nih.gov/.
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TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LCM1349 row: h column: 01
High quality sequence stop: 735.

FEATURES

source

1. 855
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4608048"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH MGC 75"
/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site_1: SfiI (ggccgctcgcc); Site 2: SfiI (ggccatcgcc); 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGCCATTATGGCC-3' and 3' adaptor sequence: 5'-ATTCTAGAGGCCGCGCGCCGACATG-dt(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.5-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC library."

ORIGIN

Query Match 94.74; Score 604; DB 12; Length 855;
Best Local Similarity 99.54; Pred. No. 4.3e-157;
Matches 637; Conservative 0; Mismatches 0; Indels 3; Gaps 3;

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OY 1 ATGTTGGGCTGCTCTTTTCTGTTGAGTCCATTCATGCTGAACCTCTGCAACCGGT 60
    |||||||
DB 33 ATGTTGGGCTGCTCTTTTCTGTTGAGTCCATTCATGCTGAACCTCTGCAACCGGT 92

OY 61 GCAGAAATGCTTTAAAGTGAGACTTATGATCAGAAACAGCTCTGGAGATTAAGCATAT 120
    |||||||
DB 93 GCAGAAATGCTTTAAAGTGAGACTTATGATCAGAAACAGCTCTGGAGATTAAGCATAT 152

OY 121 GCTGGGATACCAATGAAGATACCTTCAAGCGATGTTAGCTTTCTCCATGAGAAA 180
    |||||||
DB 153 GCTGGGATACCAATGAAGATACCTTCAAGCGATGTTAGCTTTCTCCATGAGAAA 212

OY 181 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTTACTTTCATGTAACCCAGAGG 240
    |||||||
DB 213 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTTACTTTCATGTAACCCAGAGG 272

OY 241 GATCATTTCTGTTGTGTTAGTACAGACCTTCAAAAAATCACACCTTCTGCTTTGAG 300
    |||||||
DB 273 GATCATTTCTGTTGTGTTAGTACAGACCTTCAAAAAATCACACCTTCTGCTTTGAG 332

OY 301 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCAACAATGCTTTCTTCTAAATGAC 360
    |||||||
DB 333 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCAACAATGCTTTCTTCTAAATGAC 392

OY 361 CAAACTCTGAATTTTAAAAATCCCTTCACACTTTCACACCAACCCATGAGCCATCTGTG 420
    |||||||
DB 393 CAAACTCTGAATTTTAAAAATCCCTTCACACTTTCACACCAACCCATGAGCCATCTGTG 452

OY 421 CCCATCTGATTAATTAATTTGGTGATATTTTGATCATCATAGTTCGAATTGCACTA 480
    |||||||
DB 453 CCCATCTGATTAATTAATTTGGTGATATTTTGATCATCATAGTTCGAATTGCACTA 512

OY 481 CTGATTTTATCAGGATCTGGCAAGTGAAGAAAGAAC-AAAGAACATCTGAAGTGA 539
    |||||||
DB 513 CTGATTTTATCAGGATCTGGCAAGTGAAGAAAGAACAAAGAACATCTGAAGTGA 572
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OY 540 TGACGCTGAAGATAGTGTGAACATGATCACAATGAAATGGCATCCCTCTGATCC 599
    |||||||
DB 573 TGACGCTGAAGATAGTGTGAACATGATCACAATGAAATGGCATCCCTCTGATCC 631

OY 600 CCTGACATGAAGGG-GGGCATATTAATGATGCTTCATG 638
    |||||||
DB 632 CCTGACATGAAGGGGCGCATATTAATGATGCTTCATG 671
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RESULT 8

BG429705 804 bp mRNA linear EST 14-MAR-2001

LOCUS

DEFINITION

602493709P1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4607499 5',

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLES

JOURNAL

COMMENT

1 (bases 1 to 804)
NIH-MGC http://mgc.ncbi.nlm.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LCM1348 row: a column: 04
High quality sequence stop: 731.

FEATURES

source

1. 804
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4607499"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH MGC 75"
/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site_1: SfiI (ggccgctcgcc); Site 2: SfiI (ggccatcgcc); 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGCCATTATGGCC-3' and 3' adaptor sequence: 5'-ATTCTAGAGGCCGCGCGCCGACATG-dt(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.5-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC library."

ORIGIN

Query Match 94.04; Score 599.8; DB 12; Length 804;
Best Local Similarity 97.24; Pred. No. 6.3e-156;
Matches 621; Conservative 0; Mismatches 17; Indels 1; Gaps 1;

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OY 1 ATGTTGGGCTGCTCTTTTCTGTTGAGTCCATTCATGCTGAACCTCTGCAACCGGT 60
    |||||||
DB 32 ATGTTGGGCTGCTCTTTTCTGTTGAGTCCATTCATGCTGAACCTCTGCAACCGGT 91

OY 61 GCAGAAATGCTTTAAAGTGAGACTTATGATCAGAAACAGCTCTGGAGATTAAGCATAT 120
    |||||||
DB 92 GCAGAAATGCTTTAAAGTGAGACTTATGATCAGAAACAGCTCTGGAGATTAAGCATAT 151

OY 121 GCTGGATACCAATGAAGATACCTTCAAGCGATGTTAGCTTTCTCCATGAGAAA 180
    |||||||
DB 152 GCTGGATACCAATGAAGATACCTTCAAGCGATGTTAGCTTTCTCCATGAGAAA 211

OY 181 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTTACTTTCATGTAACCCAGAGG 240
```



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|||||
Db 212 GTTCCACAGAGACAGACAGAAATTTCCCATGTCCTACTTTCATATGTAACCCAGAG 271
Qy 241 GTATCATTCGTGTTGTGTACAGACCCCTTCAAAAATCAACACCTTCTGCTGTAG 300
Db 272 GTATCATTCGTGTTGTGTACAGACCCCTTCAAAAATCAACACCTTCTGCTGTAG 331
Qy 301 GTGCATCAGCCATAGAAATGAACAAGAACCGGATCAACAATGCTTCTTTCTTAATGAC 360
Db 332 GTGCATCAGCCATAGAAATGAACAAGAACCGGATCAACAATGCTTCTTTCTTAATGAC 391
Qy 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACACCCATGGAACCATCTGTG 420
Db 392 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACACCCATGGAACCATCTGTG 451
Qy 421 CCCATCTGATATATATATTGTTGTGATATTGTCATCATCATAGTTCATATGCACTA 480
Db 452 CCCATCTGATATATATATTGTTGTGATATTGTCATCATCATAGTTCATATGCACTA 511
Qy 481 CTGATTTTATCAGGATCTGCGACAGTAGAAG-AAAGAACAAAGAACCATCTGAAGTGA 539
Db 512 CTGATTTTATCAGGATCTGCGACAGTAGAAGAACAAAGAACCATCTGAAGTGA 571
Qy 540 TGACGCTGAAGATTAAGTGTGAAAACATGATCACAATGAAAATGCAATCCCTGTGATCC 599
Db 572 TGACGCTGAAGATTAAGTGTGAAAACATGATCACAATGAAAATGCAATCCCTGTGATCC 631
Qy 600 CCTGACATGAAGGGGGCATATTAATGATGCTTCATG 638
Db 632 CTGACATGAAGGAGGACATATTAATGATGCTTCATG 670
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RESULT 9
LOCUS BG429174 780 bp mRNA linear EST 14-MAR-2001
DEFINITION 602498032P1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4612062 5',
            mRNA sequence.
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ACCESSION BG429174
VERSION BG429174.1 GI:13335680
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homindae; Homo.
REFERENCE NIH-MGC http://mgs.nci.nih.gov/.
            1 (bases 1 to 780)
AUTHORS NIH-MGC National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgabs-remail.nih.gov
            Tissue Procurement: CLONTECH Laboratories, Inc.
            cDNA Library Preparation: CLONTECH Laboratories, Inc.
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LML)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LML at:
            http://image.llnl.gov
            Plate: LCM1359 row: 0 column: 07
            High quality sequence stop: 718.
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                /note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site_1:
                SfiI (ggcgccgcgcgc); Site_2: SfiI (ggccatcatggcc); 5' and
                3' adaptors were used in cloning as follows: 5' adaptor
                sequence: 5'-CACGCCATTAAGGCC-3' and 3' adaptor sequence:
                5'-ATTCTAGAGGCCGAGCGCGCCGACATG-dT(30)BN-3' (where B = A,
                C, or G and N = A, C, G, or T). Average insert size 1.65
```

kb (range 0.5-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC Library."

Query Match 93.7%; Score 598; DB 12; Length 780;
Best Local Similarity 99.8%; Pred. No. 2e-155;
Matches 609; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

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ORIGIN
Qy 30 TGCATTCATGCTGAACCTCTGTGAACAGGTGACGAAATGCTTTAAAGTGAAGCTTAG 89
Db 1 TGCATTCATGCTGAACCTCTGTGAACAGGTGACGAAATGCTTTAAAGTGAAGCTTAG 60
Qy 90 TATCAGAACAGCTCTGGAGATTAAGCATATGCTGGATACCAATGAAGATACCTCTT 149
Db 61 TATCAGAACAGCTCTGGAGATTAAGCATATGCTGGATACCAATGAAGATACCTCTT 120
Qy 150 CAAAGCATGTAGCTTTCTCCATGAAAGTTCCCAACAGAGAACCAAGAAATTC 209
Db 121 CAAAGCATGTAGCTTTCTCCATGAAAGTTCCCAACAGAGAACCAAGAAATTC 180
Qy 210 CCATGCTCTACTTTCATATGTAACCAAGAGGTATCATCTGTTGTGTTACAGACC 269
Db 181 CCATGCTCTACTTTCATATGTAACCAAGAGGTATCATCTGTTGTGTTACAGACC 240
Qy 270 TTCAAAAATCACAACCTCTGCTGTGTTGAGGTGCAATCAGCCATAGAATGAACAAGAA 329
Db 241 TTCAAAAATCACAACCTCTGCTGTGTTGAGGTGCAATCAGCCATAGAATGAACAAGAA 300
Qy 330 CCGATCAACAATGCTTTCTTCTAAATGACCAAACTCTGAATTTTAAAAATCCCTTC 389
Db 301 CCGATCAACAATGCTTTCTTCTAAATGACCAAACTCTGAATTTTAAAAATCCCTTC 360
Qy 390 CACACTTGACCAACCCATGACCCATCTGTGCCATCTGATTTATATTTGTTGAT 449
Db 361 CACACTTGACCAACCCATGACCCATCTGTGCCATCTGATTTATATTTGTTGAT 420
Qy 450 ATTTGTCATCATCATAGTTGCAATTCGACTGATTTTATCAGGATCTGCCAAGTAG 509
Db 421 ATTTGTCATCATCATAGTTGCAATTCGACTGATTTTATCAGGATCTGCCAAGTAG 480
Qy 510 AAGAAAGAACAAAGAACCATCTGAAGTGATGACGCTGAAGATAAGTGAAGAACATGAT 569
Db 481 AAGAAAGAACAAAGAACCATCTGAAGTGATGACGCTGAAGATAAGTGAAGAACATGAT 540
Qy 570 CACAATTGAAATGGCATCCCTCTGATCCCTGAGACATGAAGGAGGACATTAATGA 628
Db 541 CACAATTGAAATGGCATCCCTCTGATCCCTGAGACATGAAGGAGGACATTAATGA 600
Qy 629 TGCTTCATG 638
Db 601 TGCTTCATG 610
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```
RESULT 10
LOCUS BG400319 791 bp mRNA linear EST 12-MAR-2001
DEFINITION 602464526P1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4592575 5',
            mRNA sequence.
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ACCESSION BG400319
VERSION BG400319.1 GI:13293767
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homindae; Homo.

REFERENCE NIH-MGC http://mgs.nci.nih.gov/.
 1 (bases 1 to 791)
AUTHORS NIH-MGC National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgabs-remail.nih.gov

Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
plate: LCM1331 row: c column: 08
High quality sequence stop: 711.
Location/Qualifiers

FEATURES

Source

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1.791
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4592575"
/lab_host="DH10B (T1 phage-resistant)"
/clone_1lb="NIH_MGC_75"
/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1:
SfiI (ggcgctcgcc); Site 2: SfiI (ggccattggcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGGCCATATGGCC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGCGGCGGCGGCGCATG-dt(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."
```

ORIGIN

Query Match 92.9%; Score 593; DB 12; Length 791;
Best Local Similarity 99.4%; Pred. No. 4.9e-154;
Matches 637; Conservative 0; Mismatches 0; Indels 4; Gaps 4;

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QY 1 ATGTTGTCGCTCTTTTCTGTCGTCGTCATTCATGCTGAAGTCTGTCAACAGGT 60
    |||||
Db 31 ATGTTGTCGCTCTTTTCTGTCGTCGTCATTCATGCTGAAGTCTGTCAACAGGT 90

QY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGACAGCTCTGGAGATAAGCATAT 120
    |||||
Db 91 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGACAGCTCTGGAGATAAGCATAT 150

QY 121 GCCTGGATACCAATGAAGTAACTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 180
    |||||
Db 151 GCCTGGATACCAATGAAGTAACTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 210

QY 181 GTTCCCAACAGAGACAGCAAAATTTCCATGTCCTACTTTCATATGTAACCCAGAG 240
    |||||
Db 211 GTTCCCAACAGAGACAGCAAAATTTCCATGTCCTACTTTCATATGTAACCCAGAG 270

QY 241 GTATCATTCGTTTGTGTACAGACCCCTTCAAAAATCACCCTTCCGCTGTGAG 300
    |||||
Db 271 GTATCATTCGTTTGTGTACAGACCCCTTCAAAAATCACCCTTCCGCTGTGAG 330

QY 301 GTGCAATCAGCCATAGAATGAACAAGACCGGATCAACAATGCTTTCTTAATGAC 360
    |||||
Db 331 GTGCAATCAGCCATAGAATGAACAAGACCGGATCAACAATGCTTTCTTAATGAC 390

QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCAACCCATGAGCCCATCTGTG 420
    |||||
Db 391 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCAACCCATGAGCCCATCTGTG 450

QY 421 CCCATCTGATTAATTAATTT-GGTGTGATTTTTCATCATCATAGTTGCAATGCACT 479
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Db 451 CCCATCTGATTAATTAATTTGCTGTGATTTTTCATCATCATAGTTGCAATGCACT 510

QY 480 ACTGATTTATCAGGATCTGGCAAGTGAAGAAAGAAAGAAAGCAACCATCTGAAGTGA 539
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Db 511 ACTGA-TTATCAGGATCTGGCAAGTGAAGAAAGAAAGAAAGCAACCATCTGAAGTGA 569

QY 540 TGACGCTGAAGATAAGTGAAGAAACATGATCACAATGAAATGGCATCCCTCTGATCC 599
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Db 570 TGACGCTGAAGATAAGTGAAGAAACATGATCACAATGAAATGGCATCCCTCTGATCC 629
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QY 600 CCTGACATGAAGG-GGGCATATTAA-TGATGCTTCATG 638
|||||
Db 630 CCTGACATGAAGGAGGCGCATATTAGTATGCTTCATG 670

RESULT 11
BG430955 850 bp mRNA linear EST 14-MAR-2001
LOCUS 602500255F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4613965 5',
DEFINITION mRNA sequence.
ACCESSION BG430955
VERSION BG430955.1 GI:13337461
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
TITLES National Institutes of Health, Mammalian Gene Collection (MGC).
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
plate: LCM1364 row: n column: 14
High quality sequence stop: 681.
Location/Qualifiers

FEATURES

source

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1.850
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4613965"
/lab_host="DH10B (T1 phage-resistant)"
/clone_1lb="NIH_MGC_75"
/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1:
SfiI (ggcgctcgcc); Site 2: SfiI (ggccattggcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGGCCATATGGCC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGGCGGCGGCGCATG-dt(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."
```

ORIGIN

Query Match 92.7%; Score 591.6; DB 12; Length 850;
Best Local Similarity 97.5%; Pred. No. 1.2e-153;
Matches 622; Conservative 0; Mismatches 14; Indels 2; Gaps 2;

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QY 1 ATGTTGTCGCTCTTTTCTGTCGTCGTCATTCATGCTGAAGTCTGTCAACAGGT 60
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Db 36 ATGTTGTCGCTCTTTTCTGTCGTCGTCATTCATGCTGAAGTCTGTCAACAGGT 95

QY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGACAGCTCTGGAGATAAGCATAT 120
    |||||
Db 96 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAGACAGCTCTGGAGATAAGCATAT 155

QY 121 GCCTGGATACCAATGAAGTAACTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 180
    |||||
Db 156 GCCTGGATACCAATGAAGTAACTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 215

QY 181 GTTCCCAACAGAGACAGCAAAATTTCCATGTCCTACTTTCATATGTAACCCAGAG 240
    |||||
Db 216 GTTCCCAACAGAGACAGCAAAATTTCCATGTCCTACTTTCATATGTAACCCAGAG 275

QY 241 GTATCATTCGTTTGTGTACAGACCCCTTCAAAAATCACCCTTCCGCTGTGAG 300
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|||||
DB 276 GTATCATCTGCTTGTGGTTACAGACCTTCMAAAATCACACCCCTTCCTGCTGTGAG 335
QY 301 GTGCAATCAGCCATAGAAATGAAACGCGATCAACATGCTTCTTAAATGAC 360
DB 336 GTGCAATCAGCCATAGAAATGAAACGCGATCAACATGCTTCTTAAATGAC 395
QY 361 CAACTCTGGAATTTTAAAAATCCCTTCACACTTGCAACCCCATGCACTGTG 420
DB 396 CAACTCTGGAATTTTAAAAATCCCTTCACACTTGCAACCCCATGCACTGTG 455
QY 421 CCGATCTGATATATATTTGTGTGATTTTGCATCATAGTTCATTTGCACTA 480
DB 456 CCGATCTGATATATATTTGTGTGATTTTGCATCATAGTTCATTTGCACTA 515
QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAAAGAAACAAAGACCATCTGAAGTGA 540
DB 516 CTGATTTTATCAGGATCTGGCAACGTAGAAAGAAACAAAGACCATCTGAAGTGA 575
QY 541 GACCTGGAAGATAGTGTGAACATGATCACAATTTGAAATGCAATCCCTCTGATCC 600
DB 576 GACCTGGAAGAT-AGTGTGAACATGATCACAATTTGAAATGAT-CCCTCTGATCC 633
QY 601 CTGACATGGAAGGGGCGCATATTTATGATGCTTCATG 638
DB 634 TGGACATGAAGGGGCGCATATTTATGATGCTTCATG 671

RESULT 12
BG399473 808 bp mRNA linear EST 12-MAR-2001
LOCUS 602441206P1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4557073 5',
DEFINITION mRNA sequence.

ACCESSION BG399473
VERSION BG399473.1 GI:13293021
KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE NIH-MGC http://mgi.nci.nih.gov/

JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)

COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov

Tissue Procurement: CLONTECH Laboratories, Inc.
CDNA Library Preparation: CLONTECH Laboratories, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov
Plate: LCM1260 row: 1 column: 02

High quality sequence stop: 637.

FEATURES
Location/Qualifiers

1..808

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:4557073"

/lab_host="DH10B (T1 phage-resistant)"

/clone_lib="NIH_MGC_75"

/note="Organ: Kidney; Vector: pDNR-LIB (Clontech); Site 1:
SfiI (ggcgccctcgcc); Site 2: SfiI (ggcattatggc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGGCCATTTATGGC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGGAGCGGCGGCGGACATG-dT(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 91.8%; Score 586; DB 12; Length 808;
Best Local Similarity 96.5%; Pred. No. 4.4e-152;
Matches 610; Conservative 0; Mismatches 20; Indels 2; Gaps 1;

QY 1 ATGTGTGCTGCTCTTTTCTGTGATGCGCATTCATGCTGAATCTGTCAACGAGT 60
DB 32 ATGTGTGCTGCTCTTTTCTGTGATGCGCATTCATGCTGAATCTGTCAACGAGT 91
QY 61 GCAGAAATGCTTTAAAGTGAAGACTTATTCAGAAAGCTCTGGAGATAAGCATAT 120
DB 92 GCAGAAATGCTTTAAAGTGAAGACTTATTCAGAAAGCTCTGGAGATAAGCATAT 151
QY 121 GCCTGGATACCAATGAAATACCTCTTCAAGCGATGAGCTTCTCCATGAGAAA 180
DB 152 GCCTGGATACCAATGAAATACCTCTTCAAGCGATGAGCTTCTCCATGAGAAA 211
QY 181 GTTCCCAACAGAGAACAGAAATTTCCCATGTCTTCTTGAATGTAACCCAGAG 240
DB 212 GTTCCCAACAGAGAACAGAAATTTCCCATGTCTTCTTGAATGTAACCCAGAG 271
QY 241 GTATCATCTGCTTTGTGTGTTACAGACCTTCAAAAATGACACCCCTCTGCTG 300
DB 272 GTATCATCTGCTTTGTGTGTTACAGACCTTCAAAAATGACACCCCTCTGCTG 331
QY 301 GTGCAATCAGCCATAGAAATGAAACGCGATCAACATGCTTCTTCTAATGAC 360
DB 332 GTGCAATCAGCCATAGAAATGAAACGCGATCAACATGCTTCTTCTAATGAC 391
QY 361 CAACTCTGGAATTTTAAAAATCCCTTCACACTTGCAACCCCATGCACTGTG 420
DB 392 CAACTCTGGAATTTTAAAAATCCCTTCACACTTGCAACCCCATGCACTGTG 451
QY 421 CCGATCTGATATATTTGTGTGATTTTGCATCATAGTTCATTTGCACTA 480
DB 452 CCGATCTGATATATTTGTGTGATTTTGCATCATAGTTCATTTGCACTA 511
QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAAAGAAACAAAGACCATCTGAAGTGA 540
DB 512 CTGATTTTATCAGGATCTGGCAACGTAGAAAGAAACAAAGACCATCTGAAGTGA 571
QY 541 GACCTGGAAGATAGTGTGAACATGATCACAATTTGAAATGCAATCCCTCTGATC 598
DB 572 GACCTGGAAGATAGTGTGAACATGATCACAATTTGAAATGCAATCCCTCTGATC 631
QY 599 CCGTGAATGGAAGGGGCGCATATTTAATGATG 630
DB 632 CCGTGAATGGAAGGGGCGCATATTTAATGATG 663

RESULT 13
BG399402 736 bp mRNA linear EST 12-MAR-2001
LOCUS 602441161P1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4557015 5',
DEFINITION mRNA sequence.

ACCESSION BG399402
VERSION BG399402.1 GI:13292850
KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE NIH-MGC http://mgi.nci.nih.gov/

JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)

COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov

Tissue Procurement: CLONTECH Laboratories, Inc.
CDNA Library Preparation: CLONTECH Laboratories, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

DNA Sequencing by: Incyte Genomics, Inc.

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at:

http://image.lnl.gov

plate: L1CM1260 row: 1 column: 16

High quality sequence stop: 661.

Location/Qualifiers

FEATURES

Source

1. 736

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAG:4557015"

/lab_host="DH10B (T1 phage-resistant)"

/clone_lib="NIH_MGC_75"

/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1: SfiI (ggcgctcgcc); Site 2: SfiI (ggccatcggcc); 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGGCCATTATGGCC-3' and 3' adaptor sequence: 5'-ATTCTAGAGCGCGCGCGCCGACATG-dT(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.5-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 91.8%; Score 585.8; DB 12; Length 736;

Best Local Similarity 99.2%; Pred. No. 4.9e-152;

Matches 620; Conservative 0; Mismatches 2; Indels 3; Gaps 3;

QY 12 GCTCTTTTCTGTGACTGTCATTCATGCTGAACTCTGTCAACGAGTGAGAAAATGC 71

DB 3 GCTCTTTTCTGTGACTGTCATTCATGCTGAACTCTGTCAACGAGTGAGAAAATGC 62

QY 72 TTTTAAAGTGAAGTCTAGTATGAGAACAGCTCTGGAGATTAAGCATATGCTGGATAC 131

DB 63 TTTTAAAGTGAAGTCTAGTATGAGAACAGCTCTGGAGATTAAGCATATGCTGGATAC 122

QY 132 CAATGAAGATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAAAGTTCACACAG 191

DB 123 CAATGAAGATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAAAGTTCACACAG 182

QY 192 AGAAGCAACAGAAATTTCCAGTCTTCTGCAATGTAACCCAGAGGGATCATTCCTG 251

DB 183 AGAAGCAACAGAAATTTCCAGTCTTCTGCAATGTAACCCAGAGGGATCATTCCTG 242

QY 252 GTTGTGTGTTACAGACCTTCAAAAATCAGACCTTCTGCTGTTGAGGTGCAATCAGC 311

DB 243 GTTGTGTGTTACAGACCTTCAAAAATCAGACCTTCTGCTGTTGAGGTGCAATCAGC 302

QY 312 CATAGAATGAACAAGACCGGATCAACAATGCTTTCTTAATGACCAAACTCTGGA 371

DB 303 CATAGAATGAACAAGACCGGATCAACAATGCTTTCTTAATGACCAAACTCTGGA 362

QY 372 ATTTTAAATATCCCTTCCAGCTTGACCAACCATGAGCCCATCTGCTGGAT 431

DB 363 ATTTTAAATATCCCTTCCAGCTTGACCAACCATGAGCCCATCTGCTGGAT 422

QY 432 TATTATATTTGGTGTATTTTGCATCATGATGTAATGCACTACTGATTTTATC 491

DB 423 TATTATATTTGGTGTATTTTGCATCATGATGTAATGCACTACTGATTTTATC 482

QY 492 AGGATCTGGCAACGTAGAG-AAAAGACAAGAACCATCTGAAGTGAAGAGCTGAAG 550

DB 483 AGGATCTGGCAACGTAGAGAAAAGACAAGAACCATCTGAAGTGAAGAGCTGAAG 542

QY 551 ATAAGTGTAAAAATCATGATCAAA-TTGAATATGGATCCCTCTGATCCCTGAGCATG 609

DB 543 ATAAGTGTAAAAATCATGATCAAA-TTGAATATGGATCCCTCTGAT-CCCTGAGCATG 601

QY 610 AAGGGGGCATATTAATGATGCTT 634

DB 602 AGGAGGGCATATTAATGATGCTT 626

RESULT 14

BG427839

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITL

JOURNAL

COMMENT

859 bp mRNA linear EST 14-MAR-2001

602501524P1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4615156 5', mRNA sequence.

BG427839

GI:13334345

EST.

Homo sapiens (human)

Homo sapiens

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

1 (bases 1 to 859)

NIH-MGC http://img.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgabs-rc@mail.nih.gov

Tissue Procurement: CLONTECH Laboratories, Inc.

cDNA Library Preparation: CLONTECH Laboratories, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LINL at:

http://image.lnl.gov

plate: L1CM1367 row: p column: 05

High quality sequence stop: 661.

Location/Qualifiers

1. 859

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAG:4615156"

/lab_host="DH10B (T1 phage-resistant)"

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/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1: SfiI (ggcgctcgcc); Site 2: SfiI (ggccatcggcc); 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGGCCATTATGGCC-3' and 3' adaptor sequence: 5'-ATTCTAGAGCGCGCGCGCCGACATG-dT(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.5-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 91.7%; Score 584.8; DB 12; Length 859;

Best Local Similarity 99.2%; Pred. No. 9.5e-152;

Matches 619; Conservative 0; Mismatches 2; Indels 3; Gaps 3;

QY 14 TCTTTTCTGTGACTGTCATTCATGCTGAACTCTGTCAACGAGTGAGAAAATGCTT 73

DB 2 TCTTTTCTGTGACTGTCATTCATGCTGAACTCTGTCAACGAGTGAGAAAATGCTT 61

QY 74 TTAAGTGAAGTCTAGTATGAGAACAGCTCTGGAGATTAAGCATATGCTGGATACCA 133

DB 62 TTAAGTGAAGTCTAGTATGAGAACAGCTCTGGAGATTAAGCATATGCTGGATACCA 121

QY 134 ATGAAGATATCTTTCAAGCGATGTAGCTTTCTCCATGAGAAAAGTTCACACAG 193

DB 122 ATGAAGATATCTTTCAAGCGATGTAGCTTTCTCCATGAGAAAAGTTCACACAG 181

QY 194 AAGCAACAGAAATTTCCAGTCTTCTGCAATGTAACCCAGAGGGATCAATCTGCT 253

DB 182 AAGCAACAGAAATTTCCAGTCTTCTGCAATGTAACCCAGAGGGATCAATCTGCT 241

QY 254 TTGTGTTAGACACCTTCAAAAATCAGACCTTCTGCTGTTGAGGTGCAATCAGCCA 313

DB 242 TTGTGTTAGACACCTTCAAAAATCAGACCTTCTGCTGTTGAGGTGCAATCAGCCA 301

QY 314 TAAGATGAACAAGACCGGATCAACAATGCTTCTTCTAATGACCAAACTCTGGAAT 373

Db 302 TAAAGATGAACAAGAACCGGATCAACAATGCCCTTTCTTAATGACCAAACTCTGGAAT 361

Qy 374 TTTTAAAAATCCCTTCCACACTTGCACCCACCATGGAACCCATCTGTGCCCATCTGGATT 433

Db 362 TTTTAAAAATCCCTTCCACACTTGCACCCACCATGGAACCCATCTGTGCCCATCTGGATT 421

Qy 434 TTATATTTGGTGTGATATTTTGCATCATATAGTTGCAATTGCACTACTGATTTTATCAG 493

Db 422 TTATATTTGGTGTGATATTTTGCATCATATAGTTGCAATTGCACTACTGATTTTATCAG 481

Qy 494 GGATCTGGCAACGTAGAGAAGAAACAAGAACCATCTGAAGTGAATGAAGCTGAAGATA 553

Db 482 GGATCTGGCAACGTAGAGAAGAAACAAGAACCATCTGAAGTGAATGAAGCTGAAGATA 541

Qy 554 AGTGTGAAAAACATGATCAACAATTGAAAA-TGGCATCCCTCTGATCCCTT-GGCATGAA 611

Db 542 AGTGTGAAAAACATGATCAACAATTGAAAAATTGGCATCGCCTCTGATCCCTTGGGACATGAA 601

Qy 612 GGG-GGGCATATTATGATGCGCTT 634

Db 602 GGGAGGGCATATTATGATGCGCCT 625

| | | | | | |
|------------|----------------|------------|--------------|-----------------|-------------------|
| RESULT 15 | | | | | |
| BG427745 | | | | | |
| LOCUS | | | | | |
| DEFINITION | 677 bp | mRNA | linear | EST 14-MAR-2001 | |
| | 602497114P1 | NIH_MGC_75 | Homo sapiens | CDNA clone | IMAGB:4610834 5', |
| | mRNA sequence. | | | | |

| | | |
|-----------|--------------|-------------|
| ACCESSION | BG427745 | GI:13334251 |
| VERSION | BG427745.1 | |
| KEYWORDS | EST. | |
| SOURCE | Homo sapiens | (human) |
| ORGANISM | Homo sapiens | |

REFERENCES
AUTHORS
TITLE
JOURNAL
COMMENT

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 677)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLC1356 row: 1 column: 03
High quality sequence stop: 677.

| FEATURES | Location/Qualifiers |
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| SOURCE | 1. .677 |

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/db_xref="taxon:9606"
/clone="IMAGE:4610834"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH MGC 75"
/notes="Organ: kidney; Vector: pDNR-LIB (Clontech); Site_1:
SfiI (ggcgcctcgcc); Site 2: SfiI (ggccattcgcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGCCATTATGACC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCCCGAGCGCCGCGCATG-dT(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH MGC Library."

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ORIGIN

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|-----------------------|--------|---------------------|--------|-------------|
| Query Match | 91.6%; | Score 584.4; | DB 12; | Length 677; |
| Best Local Similarity | 99.1%; | Pred. No. 1.2e-151; | | |

Matches 629; Conservative 0; Mismatches 2; Indels 4; Gaps 4;

| | | | | | | | | |
|----|-----|------------------------|----------------|--------------|--------------|--------------|----------|-----|
| QY | 5 | TGTGGCTGCTTTTTTCTGGTGA | CTGCCATTGCTGTA | CTGTCA | ACTCTGTCA | ACCAGGTG | CAG | 64 |
| Db | 36 | TGTGGCTGCTTTTTTCTGGTGA | CTGCCATTGCTGTA | CTGTCA | ACTCTGTCA | ACCAGGTG | CAG | 95 |
| QY | 65 | AAAATGCTTTTAAAGTGA | AGCTTAGTATCAGA | CAAGCTCTGG | GAGATTA | AAGCATATG | CCCT | 124 |
| Db | 96 | AAAATGCTTTTAAAGTGA | AGCTTAGTATCAGA | CAAGCTCTGG | GAGATTA | AAGCATATG | CCCT | 155 |
| QY | 125 | GGGATACCAATGA | AATACCTCTTCA | AGCGATGTAG | CTTCTCCATG | AGAAAGTTC | | 184 |
| Db | 156 | GGGATACCAATGA | AATACCTCTTCA | AGCGATGTAG | CTTCTCCATG | AGAAAGTTC | | 215 |
| QY | 185 | CCAACAGAGAAC | CAAGAAATTTCC | CATGTCTTA | CTTGCATGTA | ACCAGAGGTAT | | 244 |
| Db | 216 | CCAACAGAGAAC | CAAGAAATTTCC | CATGTCTTA | CTTGCATGTA | ACCAGAGGTAT | | 275 |
| QY | 245 | CATTCTGTTGTG | TTACAGACCCCTT | CAAAAAATCA | CACCCCTCCTG | CTGTGAGGTGC | | 304 |
| Db | 276 | CATTCTGTTGTG | TTACAGACCCCTT | CAAAAAATCA | CACCCCTCCTG | CTGTGAGGTGC | | 335 |
| QY | 305 | AATCAGCCATGA | ATGAACAAGAAC | CGGATGCA | CAATGCCCTCTT | CTAAATGAC | CAAA | 364 |
| Db | 336 | AATCAGCCATGA | ATGAACAAGAAC | CGGATGCA | CAATGCCCTT | CTTCTAAATGAC | CAAA | 395 |
| QY | 365 | CTCTGGAATTTT | AAAAATCCCTT | CCACCTGCA | CCACCACGAT | CGCATCTG | CCCCA | 424 |
| Db | 396 | CTCTGGAATTTT | AAAAATCCCTT | CCACCTGCA | CCACCACGAT | CGCATCTG | CCCCA | 455 |
| QY | 425 | TCTGATTA | TATATTTGGT | GTGATATTTTGC | ATCATATAGTGC | CAATTGCA | CTGA | 484 |
| Db | 456 | TCTGATTA | TATATTTGGT | GTGATATTTTGC | ATCATATAGTGC | CAATTGCA | CTGA | 514 |
| QY | 485 | TTTTATCAGGAT | CTGGCAACGTAGA | AGAAAGAACAA | AGAACCATCTG | AAGTGATG | ACG | 544 |
| Db | 515 | TTTTATCAGGAT | CTGGCAACGTAGA | AGAAAGAACAA | AGAACCATCTG | AAGTGATG | ACG | 573 |
| QY | 545 | CTGAAGATTA | AGTGTGAAAA | CAATGATCA | CAATTTGAAAA | ATGGCATCCCTG | ATCCCTGG | 604 |
| Db | 574 | CTGAAGATTA | AGTGTGAAAA | CAATGATCA | CAATTTGAAAA | ATGGCATCCCTG | ATCCCTGG | 632 |
| QY | 605 | ACATGAAGGG | -GGGCATATTA | TGATGCTTCATG | | | | 638 |
| Db | 633 | ACATGAAGGG | -GGGCATATTA | TGATGCTTCATG | | | | 667 |

| | |
|------------|--|
| RESULT | 16 |
| BG433974 | |
| LOCUS | BG433974 |
| DEFINITION | 602497274F1 NIH_MGC_75 Homo sapiens CDNA clone IMAGE:4611018 5' mRNA sequence. |

| | | |
|-----------|--------------|-------------|
| ACCESSION | BG433974 | GI:13340480 |
| VERSION | BG433974.1 | |
| KEYWORDS | EST. | |
| SOURCE | Homo sapiens | (human) |
| ORGANISM | Homo sapiens | |

REFERENCES
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Sutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 782)
NIH-MGC <http://mgc.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINTL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINTL at: <http://image.llnl.gov>
Plate: [lhw01357](#) row: C column: 19

FEATURES
source

High quality sequence stop: 701.
Location/Qualifiers

1. 782
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4611018"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH_MGC_75"
/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1: SfiI (ggcgctcgccg); Site 2: SfiI (ggccattatggcc); 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGGCCATTATGGCC-3' and 3' adaptor sequence: 5'-ATTCTAGAGCGCGGCGGCGGACATG-dt(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.5-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 91.6%; Score 584.4; DB 12; Length 782;
Best Local Similarity 98.4%; Pred. No. 1.2e-151;
Matches 632; Conservative 0; Mismatches 6; Indels 4; Gaps 4;

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OY 1 ATGTTGCGCTCTCTTTTCTGTGTAAGTCCATTCATGTAAGTCTGTCAACAGT 60
    |||
DB 32 ATGTTGCGCTCTCTTTTCTGTGTAAGTCCATTCATGTAAGTCTGTCAACAGT 91
OY 61 GCAGAAAATGCTTTTAAAGTGAAGTCTTCAAGCGATGTAAGTCTTCAAGTAA 120
    |||
DB 92 GCAGAAAATGCTTTTAAAGTGAAGTCTTCAAGCGATGTAAGTCTTCAAGTAA 151
OY 121 GCCTGGATACCAATGAAGTAACTCTTCAAGCGATGTAAGTCTTCAAGTAA 180
    |||
DB 152 GCCTGGATACCAATGAAGTAACTCTTCAAGCGATGTAAGTCTTCAAGTAA 211
OY 181 GTTCCCAACAGAGAACCAAAATTTCCATGTCCTACTTGCATGTAACCAAGG 240
    |||
DB 212 GTTCCCAACAGAGAACCAAAATTTCCATGTCCTACTTGCATGTAACCAAGG 271
OY 241 GTATCATCTGTTGTGTGTACAGACCTTCAAAAATCACACCTTCTGCTGTGAG 300
    |||
DB 272 GTATCATCTGTTGTGTGTGTACAGACCTTCAAAAATCACACCTTCTGCTGTGAG 331
OY 301 GTGCAATCAGCCATAAGATGAACAAGACCGATCAACAATGCTTCTTCTAAATGAC 360
    |||
DB 332 GTGCAATCAGCCATAAGATGAACAAGACCGATCAACAATGCTTCTTCTAAATGAC 391
OY 361 CAAACTCTGAAATTTTAAAAATCCCTTCCACACTTGCACCAACCAATGACCACTCTGTG 420
    |||
DB 392 CAAACTCTGAAATTTTAAAAATCCCTTCCACACTTGCACCAACCAATGACCACTCTGTG 451
OY 421 CCCATCTGATTAATTAATTTGGTGTATTTTGCATCATCATAGTTGCAATTGCACTA 480
    |||
DB 452 CCCATCTGATTAATTAATTTGGTGTATTTTGCATCATCATAGTTGCAATTGCACTA 511
OY 481 CTGATTTTATCAGGGATCTGGCAAGTAGAAGAAAGAACCAATCTGAAGTGAT 540
    |||
DB 512 CTGATTTTATCAGGGATCTGGCAAGTAGAAGAAAGAACCAATCTGAAGTGAT 571
OY 541 GACGCTGAAGAT-AAAGTGAAGAAATGATCACAATTGA-AAATGCAATCCCTCTGA-T 597
    |||
DB 572 GACGCTGAAGATCAAGTGTGACACCATGATCACCAATTGACAAATGGAATCCCTCTGAAGT 631
OY 598 CCCCTGACATGAAGGG-GGGCATTAATTAATGATGCTTCATG 638
    |||
DB 632 CCCCTGACATGAAGGGGAGGCAATTAATTAATGATGCTTCATG 673
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RESULT 17
BI762437
LOCUS BI762437 978 bp mRNA linear EST 25-SEP-2001

DEFINITION 603048828F1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5189023 5',
mRNA sequence.
ACCESSION BI762437
VERSION BI762437.1 GI:15754015
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 978)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
JOURNAL Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LIML)
DNA Sequencing by: Inyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LIML at:
<http://image.llnl.gov>
Plate: LIML1472 row: g column: 08
High quality sequence stop: 826.

FEATURES

source

Location/Qualifiers

1. 978
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5189023"
/lab_host="DH10B"
/clone_lib="NIH_MGC_116"
/note="Organ: pooled colon, kidney, stomach; Vector: pCMV-SPORT6; Site 1: NotI; Site 2: BclI (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (BclI site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH_MGC Library."

ORIGIN

Query Match 90.9%; Score 580.2; DB 12; Length 978;
Best Local Similarity 98.7%; Pred. No. 1.9e-150;
Matches 604; Conservative 0; Mismatches 6; Indels 2; Gaps 2;

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OY 29 CTGCAATTCATGCTGAAGTCTGTCAAGCAAGTGAAGAAATGCTTTAAAGTGAAGTGA 88
    |||
DB 1 CTGCAATTCATGCTGAAGTCTGTCAAGCAAGTGAAGAAATGCTTTAAAGTGAAGTGA 60
OY 89 GTATCAGAACAGCTCTGGAGATTAAGCATATGCTGGATACCAATGAAGAAATCCTCT 148
    |||
DB 61 GTATCAGAACAGCTCTGGAGATTAAGCATATGCTGGATACCAATGAAGAAATCCTCT 120
OY 149 TCAGAGGATGTAGCTTTCTCAATGAGAAAGTTCCCAACAGAGAAAGCAAGAAATTT 208
    |||
DB 121 TCAGAGGATGTAGCTTTCTCAATGAGAAAGTTCCCAACAGAGAAAGCAAGAAATTT 180
OY 209 CCCA-TGTCTACTTTGCAATGTAAACCAAGAGGATCATTTCTGTTGTGTTACAGAC 267
    |||
DB 181 CCCAGTGTCTACTTGTGCAATGTAAACCAAGAGGATCATTTCTGTTGTGTTACAGAC 240
OY 268 CTTCAAAAATCAGACCCCTTCTGCTGTGAGGTCATCAGCCATGAAGTGAAGCAAG 327
    |||
DB 241 CTTCAAAAATCAGACCCCTTCTGCTGTGAGGTCATCAGCCATGAAGTGAAGCAAG 300
OY 328 AACCGATCAACATGCTTCTTTCTAAATGACCAAACTCTGAATTTTAAAAATCCTCT 387
    |||
DB 301 AACCGATCAACATGCTTCTTTCTAAATGACCAAACTCTGAATTTTAAAAATCCTCT 360
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```
QY 388 TCACACCTTGACACCAACCATGACCCATCTGTCACCACTGATTAATTATTTGGTGTG 447
DB 361 TCACACCTTGACACCAACCATGACCCATCTGTCACCACTGATTAATTATTTGGTGTG 420
QY 448 ATATTGTCATCATCATAGTGTGCAATGCACTACTGATTTTATCAGGGAATCTGGCAAGCT 507
DB 421 ATATTGTCATCATCATAGTGTGCAATGCACTACTGATTTTATCAGGGAATCTGGCAAGCT 480
QY 508 AGAAGAAAGAACAAAGAACCATCTGAGTGTGATGACGCTGAAGATAGTGTGAAACATG 567
DB 481 AGAAGAAAGAACAAAGAACCATCTGAGTGTGATGACGCTGAAGATAGTGTGAAACATG 540
QY 568 ATCACAATGAAATGGCATCCCTCTGATCCCTGACATGAGGG-GGGCATATTAT 626
DB 541 ATCACAATGAAATGGCATCCCTCTGATCCCTGACATGAGGGAGGGCATATTAT 600
QY 627 GATGCTTCATG 638
DB 601 GATGCTTCATG 612
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RESULT 18

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LOCUS K-EST0173841 LASNU368s1 Homo sapiens cDNA clone LASNU368s1-3-H04
DEFINITION 5', mRNA sequence.
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ACCESSION CB125058
VERSION CB125058.1 GI:28085812
KEYWORDS EST.
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SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
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```
REFERENCE Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 607)
Oh, K.J., Hahn, Y., Oh, J.H., Lee, J.Y., Ahn, H.Y., Chu, M.Y., Kim, M.R.,
Kim, Y.S., Cheong, J.B., Sohn, H.Y., Kim, J.M., Park, H.S., Kim, S. and
Kim, Y.S.
```

TITLE 21C Frontier Korean EST Project 2001

JOURNAL Unpublished (2002)

COMMENT Contact: Kim YS

Genome Research Center
Korea Research Institute of Bioscience & Biotechnology
52 Boeun-dong Yuseong-gu, Daejeon 305-333, South Korea
Tel: +82-42-860-4470
Fax: +82-42-860-4409
Email: yongsung@mail.kribb.re.kr
Plate: 3 row: H column: 04
High quality sequence stop: 607.
Location/Qualifiers

FEATURES

source

1. 607

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="LASNU368s1-3-H04"
/sex="M"
/tissue_type="Liver"
/cell_type="Polyclonal"
/cell_line="SNU-368"
/lab_host="Top10P"
/clone_lib="LASNU368s1"
/note="Organ: Liver; Vector: pCNS-D2; Site_1: EcoRI;
Site_2: NotI; The poly (A)+ RNA was dephosphorylated with
bacterial alkaline phosphatase (BAP) and then decapped
with tobacco acid pyrophosphatase (TAP). The decapped
intact mRNA was ligated with DNA-RNA linker including
EcoRI site by treatment of T4 RNA ligase and the first
strand cDNA was synthesized from oligo dt-selected mRNA by
priming with dt-tailed vector. The dt-tailed vector was
adjusted to have about 60nt. The cDNA vector was
circularized with B. coli DNA ligase after digestion of
EcoRI which site is also included in vector. An RNA strand
converted to a DNA strand by Okayama-Berg method. The
obtained cDNA vectors were used for transformation of

competent cells E. coli Top10P' by electroporation method.
The cDNA libraries constructed by this method are
full-length enriched cDNA library. After analyzing and
sequencing about 2,000 - 3,000 colonies in original cDNA
library, the abundant cDNAs were selected and amplified by
PCR reaction using vector region primer including T7
promotor as 5' primer and N(dt)14 as 3' primer. The PCR
products were used as template for synthesis of
biotinylated single stranded RNA by in vitro transcription
reaction. The synthesized RNA probes were hybridized with
antisense single stranded cDNAs prepared from original
library and incubated with avidin-gel. After removing
DNA-RNA hybrids by centrifuge, the substracted cDNA
libraries were constructed by transformation of the
remaining DNA into competent cells E. coli Top10P' with
electroporation method."

ORIGIN

Query Match 90.4%; Score 577; DB 14; Length 607;
Best Local Similarity 100.0%; Pred. No. 1.3e-149;
Matches 577; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATGTTGGCTGCTCTTTTCTGTTGTCCTCATCTGTAAGTCTGTCAACCAAGT 60
DB 31 ATGTTGGCTGCTCTTTTCTGTTGTCCTCATCTGTAAGTCTGTCAACCAAGT 90
QY 61 GCAGAAATGCTTTTAAAGTGAAGCTTATGATCAGAACAGCTCTGGAGATTAAGCATAT 120
DB 91 GCAGAAATGCTTTTAAAGTGAAGCTTATGATCAGAACAGCTCTGGAGATTAAGCATAT 150
QY 121 GCTGGGATACCAATGAAGATACCTCTTCAAGCGATGTAAGCTTCTCCATGAGAAA 180
DB 151 GCTGGGATACCAATGAAGATACCTCTTCAAGCGATGTAAGCTTCTCCATGAGAAA 210
QY 181 GTTCCCAACAGAGAGAGACAGAAATTTCCCATGTCTTAATTGCAATGTAACCCAGAG 240
DB 211 GTTCCCAACAGAGAGAGACAGAAATTTCCCATGTCTTAATTGCAATGTAACCCAGAG 270
QY 241 GTATCATTTCTGTTTGTGTTTACAGACCTTCAAAAATCAACACCTTCTGCTGTGAG 300
DB 271 GTATCATTTCTGTTTGTGTTTACAGACCTTCAAAAATCAACACCTTCTGCTGTGAG 330
QY 301 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCACAATGCTTTCTTAATGAC 360
DB 331 GTGCAATCAGCCATTAAGATGAACAGAACCGGATCACAATGCTTTCTTAATGAC 390
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACACCCAGATGACCTCTGTG 420
DB 391 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGACACCCAGATGACCTCTGTG 450
QY 421 CCCATCTGATTAATTATTTTGTGATATTTTGCATCATATAGTTGCAATTGCACTA 480
DB 451 CCCATCTGATTAATTATTTTGTGATATTTTGCATCATATAGTTGCAATTGCACTA 510
QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAAAGAAACAAGAACCATCTGAAGTGAT 540
DB 511 CTGATTTTATCAGGATCTGGCAACGTAGAAAGAAACAAGAACCATCTGAAGTGAT 570
QY 541 GACGCTGAAGATAGTGTGAAAACATGATCACAATTG 577
DB 571 GACGCTGAAGATAGTGTGAAAACATGATCACAATTG 607
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RESULT 19

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LOCUS 602464748F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4592890 5',
DEFINITION mRNA sequence.
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ACCESSION BG400513
VERSION BG400513.1 GI:13293961
KEYWORDS EST.
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SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
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REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 888)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.

FEATURES
 Plate: LLCM1331 row: p column: 11
 High quality sequence stop: 723.
 Location/Qualifiers

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|---------------------------|--------|---------------------|-----------|-------------|
| Query Match | 90.3%; | Score 576; | DB 12; | Length 888; |
| Best Local Similarity | 97.7%; | Pred. No. 2.7e-149; | | |
| Matches 627; Conservative | 0; | Mismatches 10; | Indels 5; | Gaps 4; |

| | | | | | | |
|----|-----|----------------------------|--------------------|------------------------|-------------|-----|
| Oy | 1 | ATGTTGTGGCTGCTCTTTTTCGTGTA | CTGCCATCATGCTGA | CTGTCAAC | CAGT | 60 |
| | | | | | | |
| Db | 36 | ATGTTGTGGCTGCTCTTTTTCGTGTA | CTGCCATCATGCTGA | CTGTCAAC | CAGT | 95 |
| | | | | | | |
| Oy | 61 | GCAGAAATGCTTTTAAAGTGA | AGCTTA-GTATCGA | ACAGCTCTGGAGAT | ATAAGCATA | 119 |
| | | | | | | |
| Db | 96 | GCAGAAATGCTTTTAAAGTGA | AGCTTAATGTATCGA | ACAGCTCTGGAGAT | ATAAGCATA | 155 |
| | | | | | | |
| Oy | 120 | TGCTGGGATACCAATGA | AGAACTCTTCAAGCGAT | GGTAGCTTCTCCATGA | AGAAA | 179 |
| | | | | | | |
| Db | 156 | TGCTGGGATACCAATGA | AGAACTCTTCAAGCGAT | GGTAGCTTCTCCATGA | AGAAA | 215 |
| | | | | | | |
| Oy | 180 | AGTTCCTCAACAGAGA | CGAACAGAAATTTCCCAT | GTCTACTTTGCA | TGTATCCACAG | 239 |
| | | | | | | |
| Db | 216 | AGTTCCTCAACAGAGA | CGAACAGAAATTTCCCAT | GTCTACTTTGCA | TGTATCCACAG | 275 |
| | | | | | | |
| Oy | 240 | GGTATCATTCGTGTTGTGTTA | CAGACCTTCAAA | AAATCACACCTTCCTGCTGTGA | | 299 |
| | | | | | | |
| Db | 276 | GGTATCATTCGTGTTGTGTTA | CAGACCTTCAAA | AAATCACACCTTCCTGCTGTGA | | 335 |
| | | | | | | |
| Oy | 300 | GGTGCATCAGCCATAGA | ATGAACAGACCGGATCA | CAATGCTCTTTCTAA | TGA | 359 |
| | | | | | | |
| Db | 336 | GGTGCATCAGCCATAGA | ATGAACAGACCGGATCA | CAATGCTCTTTCTAA | TGA | 395 |
| | | | | | | |
| Oy | 360 | CCAACTCTGGAATTTTAA | AAATCCCTCCACACTTG | CACACCCATGGA | CCCATCTGT | 419 |
| | | | | | | |
| Db | 396 | CCAACTCTGGAATTTTAA | AAATCCCTCCACACTTG | CACACCCATGGA | CCCATCTGT | 455 |
| | | | | | | |
| Oy | 420 | GCCCATCTGGAATTA | TATTTGTGTGATATTTTG | CATCATATGTTGA | ATTGCACT | 479 |
| | | | | | | |
| Db | 456 | GCCCATCTGGAATTA | TATTTGTGTGATATTTTG | CATCATATGTTGA | ATTGCACT | 515 |
| | | | | | | |

QY 480 ACTGATTTTATCAGGATCTGGCACTAGAGAAACAAGAACCATCTGAAGTGA 533
|||||
Db 516 ACTGATTTTATCAGGATCTGGCACTAGAGAAACAAGAACCATCTGAAGTGA 575
QY 540 TGAAGCTG-AAGATAAGTGTGAAAACTGATCACAATTGAAAAATGGCATCCCTCTGATC 598
|||||
Db 576 TGAAGCTGCAAGATAAGTGTGAAAACTGATCACAATTGAAAAATGGCAT-CCCTCTGATC 634
QY 599 CCCTGACATGAAGG--GGGCATATTAATGATGCTTCATG 638
|||||
Db 635 CCCTGACATGAAGGAGGGCATATTTATGATGCTTCATG 676

| | |
|------------|--|
| RESULT | 20 |
| BM811234 | |
| LOCUS | |
| DEFINITION | AGENCOURT_6489717 NIH_MGC_125 Homo sapiens mRNA linear EST 05-MAR-2002 5', mRNA sequence. |
| ACCESSION | BM811234 |
| VERSION | BM811234.1 GI:19128057 |
| KEYWORDS | EST. |
| SOURCE | Homo sapiens (human) |
| ORGANISM | Homo sapiens |

http://image.lnl.gov
Plate: ILAM12712 row: b column: 22
High quality sequence stop: 721.

normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 036."

| Query Match | Similarity | 89.6% | Score 571.4 | DB 12 | Length 1081 |
|-------------|--------------|---|--------------------|-------|-------------|
| Best Local | Similarity | 99.7% | Pred. No. 5.3e-148 | | |
| Matches | Conservative | 0 | Mismatches | 1 | Indels |
| | | | | | Gaps |
| | | | | | 1 |
| Qy | 55 | CCAGGTGCAGAAAAATGCTTTTAAAGTAGACTTGTATCAGAACAGCTCTGGGAGATAAA | 114 | | |
| Db | 165 | CGAGGTGCAGAAAAATGCTTTTAAAGTAGACTTGTATCAGAACAGCTCTGGGAGATAAA | 224 | | |
| Qy | 115 | GCATATGCTCTGGGATACCAATGAAGATACCTTTCAAGCGATGTAGCTTTCTCCATG | 174 | | |
| Db | 225 | GCATATGCTCTGGGATACCAATGAAGATACCTTTCAAGCGATGTAGCTTTCTCCATG | 284 | | |
| Qy | 175 | AGAAAGTTCCCAACAGAGAAGCAACGAATTTCCATGTCTTACTTTGCAATGTAAAC | 234 | | |

| | | | |
|----|-----|---|-----|
| Db | 381 | GTGCAATCAGCCCATTAAGATGAACAAGAACCGGATCAACAATGCCCTTCTTCTTAATGAC | 440 |
| Qy | 361 | CAAACTCTGGAATTTTAAAAATCCCTTCACACTTGCACCACCCATGGAACCATCTGTG | 420 |
| Db | 441 | CAAACTCTGGAATTTTAAAAATCCCTTCACACTTGCACCACCCATGGAACCATCTGTG | 500 |
| Qy | 421 | CCCATCTGATTATTAATATTTGGTGTGATATTTGCATCATATAGTTGCAATTGCACTA | 480 |
| Db | 501 | CCCATCTGATTATTAATATTTGGTGTGATATTTGCATCATATAGTTGCAATTGCACTA | 559 |
| Qy | 481 | CTGATTTTATCAGGGATCTGGCAACGTAGAA---GAAAGAACAAAGAACCATCTGAAGTG | 537 |
| Db | 560 | CTGA-TTTATCAGGGATCTGGCAACGTAGCAACGAACGAACAAAGAACCATCTGAAGTG | 618 |
| Qy | 538 | GATGACGCTGAAGAT-AACTGTGAACAATGATCACAATTGA-AAATGGCATCCCTCTG | 595 |
| Db | 619 | GATGACGCTGAAGATCAAGTGTGAACAATGATCACAATTGACAAATGGAATCCCTCTG | 678 |
| Qy | 596 | ATCCCTCTGACATGAA---GGGGGGCATATTAAATGATGCCCTTCAG | 638 |
| Db | 679 | ATGCCCTTGACATTAAGGAGGGGACATCTTAATGATGCCCTTCAG | 723 |

| RESULT 24 | LOCUS | DEFINITION |
|-----------|------------------------|---|
| BG399975 | BG399975 | 884 bp mRNA |
| | 602442028P1 NIH_MGC_75 | linear EST 12-MAR-2001 |
| | mRNA sequence. | Homo sapiens cDNA clone IMAGE:4557751 5', |

| | |
|-----------|----------------------|
| ACCESSION | EG399975 |
| VERSION | BG399975.1 |
| KEYWORDS | EST. |
| SOURCE | Homo sapiens (human) |

ORGANISM Homo sapiens
Bukariyota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 884)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.

1 (bases 1 to 884)
 NIH-MGC <http://mgc.nci.nih.gov/>.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cga@bbs-remail.nih.gov
 Tissue Procurement: CLONTECH Laboratories, Inc.
 cDNA Library Preparation: CLONTECH Laboratories, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
 plate: L1CM1262 row: h column: 08
 High quality sequence stop: 590.

| FEATURES | Location/Qualifiers |
|----------|---------------------|
| SOURCE | 1. .884 |

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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4557751"
/lab_host="DH10B (T1 phage-resistant)"
/clone_1lb="NIH_MGC_75"
/note="Organ: kidney; Vector: pDNR-lab (Clontech); Site_1:: SfiI (ggcgctctggcc); Site_2: SfiI (ggccattatggc); 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGCCATTATGACC-3' and 3' adaptor sequence:: 5'-ATTCTAGAGCCGAGCGCGCCGACATG-dT(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.5-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC library."

```

ORIGIN

| | | | | |
|-----------------------|--------------|---------------------|----------------|-------------|
| Query Match | 85.6%; | Score 546.2; | DB 12; | Length 884; |
| Best Local Similarity | 94.6%; | Pred. No. 5.4e-141; | | |
| Matches 599; | Conservative | 0; | Mismatches 28; | Indels 6; |
| | | | | Gaps 3; |

| | | | |
|----|-----|---|-----|
| QY | 1 | ATGTTGTGCTGCTCTTTTCTGGTGACTGCATTCATGCTGAACCTCTGTCAACCAAGT | 60 |
| Db | 32 | ATGTTGTGCTGCTCTTTTCTGGTGACTGCATTCATGCTGAACCTCTGTCAACCAAGT | 91 |
| QY | 61 | GCAGAAATGCTTTTAAAGTGAGACTTAGTACAGAACAGCTCTGGAGATTAAGCATAT | 120 |
| Db | 92 | GCAGAAATGCTTTTAAAGTGAGACTTAGTACAGAACAGCTCTGGAGATTAAGCATAT | 151 |
| QY | 121 | GCCTGGATATCCATGAAGATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAAA | 180 |
| Db | 152 | GCCTGGATATCCATGAAGATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAAA | 211 |
| QY | 181 | GTTCCCAACAGAGAACACACAGAAATTTCCATGTCCTACTTTCATGTAAACCCAGAG | 240 |
| Db | 212 | GTTCCCAACAGAGAACACACAGAAATTTCCATGTCCTACTTTCATGTAAACCCAGAG | 271 |
| QY | 241 | GTATCATTTCTGTTTGTGTATCAGACCCTTCAAAAAATCACACCTTCTGTCTGTAG | 300 |
| Db | 272 | GTATCATTTCTGTTTGTGTATCAGACCCTTCAAAAAATCACACCTTCTGTCTGTAG | 331 |
| QY | 301 | GTGCATTCAGCCATTAAGATGACAAGAACCGGATCAACAATGCTTCTTTCTAAATGAC | 360 |
| Db | 332 | GTGCATTCAGCCATTAAGATGACAAGAACCGGATCAACAATGCTTCTTTCTAAATGAC | 391 |
| QY | 361 | CAAACCTCGGAATTTTAAAAATCCCTTCCACACTGCACCAACCCATGGAACCATCTGTG | 420 |
| Db | 392 | CAAACCTCGGAATTTTAAAAATCCCTTCCACACTGCACCAACCCATGGAACCATCTGTG | 451 |
| QY | 421 | CCCATCTGGATTTATATATTGGTGTATATTTGCATCATCATAGTTGCCAATTGCACTA | 480 |
| Db | 452 | CCCATCTGGATTTATATA-TTGGTGTATATTTGCATCATCATAGTTGCCAATTGCACTA | 510 |
| QY | 481 | CTGATTTTATCAGGGATCTGGCAAAGTAGAAGAAAGAACCAACCATCTGAAGTGAT | 540 |
| Db | 511 | CTGATTTTATCAGGGATCTGGCAAAGTAGAAGAAAGAACCAACCATCTGAAGTGAT | 570 |
| QY | 541 | GACGCTGAAGATTAAGTGTGAAAAACATGATCACAATGAAAAATGGCATCCCTCTGATCCC | 600 |
| Db | 571 | GACGCTGAAGATTAAGTGTGAAAAACCTGGAT--CCATGAAAAATGATCCCTC--GATCCC | 625 |
| QY | 601 | CTGACATGAAGGGGGGCATATTAATGATGCTT | 633 |
| Db | 626 | CTGACCTGAAGAGAGACTAATTAATGATGCTT | 658 |

| | | | | | |
|------------|------------|------------------|------------|------------|-----------------|
| RESULT 25 | | | | | |
| AV653898 | | | | | |
| LOCUS | AV653898 | 735 bp | mRNA | linear | EST 15-JAN-2002 |
| DEFINITION | AV653898 | GLC Homo sapiens | CDNA clone | GLCPG98.3' | mRNA sequence. |
| ACCESSION | AV653898 | | | | |
| VERSION | AV653898.1 | GI:9874912 | | | |

| SOURCE ORGANISM | Homo sapiens (human) |
|-----------------|----------------------|
| ORGANISM | Homo sapiens |

REFERENCE
1 (bases 1 to 735)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

| AUTHORS | TITLE |
|---|---|
| Xu, X., Huang, J., Xu, Z., Qian, B., Zhu, Z., Yan, Q., Cai, T., Zhang, X., Xiao, H., Qu, J., Liu, F., Huang, Q., Cheng, Z., Li, N., Du, J., Hu, W., Shen, K., Lu, G., Fu, G., Zhong, M., Xu, S., Gu, W., Huang, W., Zhao, X., Hu, G., Gu, J., Chen, Z., and Han, Z. | Insight into hepatocellular carcinogenesis at transcriptome level |

by comparing gene expression profiles of hepatocellular carcinoma with those of corresponding noncancerous liver
Proc. Natl. Acad. Sci. U.S.A. 98 (26), 15089-15094 (2001)

JOURNAL
MEDLINE
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COMMENT
Contact: Zeguang Han
Chinese National Human Genome Center at Shanghai
351 Guo Shoujing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai
201203, P. R. China
Tel: 86-21-50801919 (ex.45)

OY 601 CTGACATGAAGG-GGCATATTATGATGCTTCATG 638
|||
Db 601 CTGACATGAAGGAGGAGGCATATTATGATGCTTCATG 639

Search completed: June 6, 2004, 14:32:19
Job time : 1618.72 secs

QY 541 GACCTGAAGATAGTGTGAACATGATCACAATGMAAATGCAATCCCTCTGATCCC 600
DB 572 GACCTGAAGATAGTGTGAACATGATCACAATGMAAATGCAATCCCTCTGATCCC 631
QY 601 CTGACATGAAGGG-GGGCATATTAATGATGCTTCATG 638
DB 632 CTGACATGAAGGGGCGCATATTAATGATGCTTCATG 670

RESULT 2

US-09-247-155-27
; Sequence 27, Application US/09247155A
; Patent No. 6312922
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
; APPLICANT: Duclert, Aymeric
; APPLICANT: Bouquelerec, Lydie
; TITLE OF INVENTION: Complementary DNAs
; FILE REFERENCE: GENSET.021A
; CURRENT APPLICATION NUMBER: US/09/247,155A
; CURRENT FILING DATE: 1999-02-09
; EARLIER APPLICATION NUMBER: 60/074,121
; EARLIER FILING DATE: 1998-02-09
; EARLIER APPLICATION NUMBER: 60/081,563
; EARLIER FILING DATE: 1998-04-13
; EARLIER APPLICATION NUMBER: 60/096,116
; EARLIER FILING DATE: 1998-08-10
; EARLIER APPLICATION NUMBER: 60/099,273
; NUMBER OF SEQ ID NOS: 182
; SOFTWARE: Patent.pm
; SEQ ID NO 27
; LENGTH: 848
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 32..73
; OTHER INFORMATION: Von Heijne matrix
US-09-247-155-27

Query Match 98.0%; Score 625; DB 4; Length 848;
Best Local Similarity 99.2%; Pred. No. 1.2e-184;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTTGGCTGCTCTTTTCTGTGACTGCAATTCATGTAATCTGTCAACCAAGT 60
DB 32 ATGTTGGCTGCTCTTTTCTGTGACTGCAATTCATGTAATCTGTCAACCAAGT 91
QY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAAGACAGCTCTGGAGATTAAGCATAT 120
DB 92 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAAGACAGCTCTGGAGATTAAGCATAT 151
QY 121 GCCTGGATACCAATGAAGTAACTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 180
DB 152 GCCTGGATACCAATGAAGTAACTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 211
QY 181 GTTCCCAAGAGAGCAAGAAATTTCCATGCTTCTTCAATGTAAACCCAGAG 240
DB 212 GTTCCCAAGAGAGCAAGAAATTTCCATGCTTCTTCAATGTAAACCCAGAG 271
QY 241 GTATCATTTGTTTGTGTTTACAGACCTTCAAAAAATCAACCTTCTGCTGTTGAG 300
DB 272 GTATCATTTGTTTGTGTTTACAGACCTTCAAAAAATCAACCTTCTGCTGTTGAG 331
QY 301 GTGCAATCAGCCATTAAGATGAACAGAAACCGGATCAACATGCTTCTTCTAATGAC 360
DB 332 GTGCAATCAGCCATTAAGATGAACAGAAACCGGATCAACATGCTTCTTCTAATGAC 391
QY 361 CAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGACCAACCCATGACCTGTG 420
DB 392 CAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGACCAACCCATGACCTGTG 451

QY 421 CCATCTGATTAATTAATTTGTTGATATTTTGCATCATATAGTTGAATTCACATA 480
DB 452 CCATCTGATTAATTAATTTGTTGATATTTTGCATCATATAGTTGAATTCACATA 511
QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAAACCAACCATCTGAAGTGAT 540
DB 512 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAAACCAACCATCTGAAGTGAT 571
QY 541 GACCTGAAGATAGTGTGAACATGATCACAATGMAAATGCAATCCCTCTGATCCC 600
DB 572 GACCTGAAGATAGTGTGAACATGATCACAATGMAAATGCAATCCCTCTGATCCC 631
QY 601 CTGACATGAAGGG-GGGCATATTAATGATGCTTCATG 638
DB 632 CTGACATGAAGGGGCGCATATTAATGATGCTTCATG 670

RESULT 3

US-09-663-600A-27
; Sequence 27, Application US/09663600A
; Patent No. 6573068
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
; APPLICANT: Duclert, Aymeric
; APPLICANT: Bouquelerec, Lydie
; TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS
; FILE REFERENCE: 31.053.CIP
; CURRENT APPLICATION NUMBER: US/09/663,600A
; CURRENT FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: 09/191,997
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: 60/066,677
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/069,957
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/074,121
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: 60/081,563
; PRIOR FILING DATE: 1998-04-13
; PRIOR APPLICATION NUMBER: 60/096,116
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: 60/099,273
; NUMBER OF SEQ ID NOS: 229
; SOFTWARE: Patent.pm
; SEQ ID NO 27
; LENGTH: 848
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 32..73
; OTHER INFORMATION: Von Heijne matrix
US-09-663-600A-27

Query Match 98.0%; Score 625; DB 4; Length 848;
Best Local Similarity 99.2%; Pred. No. 1.2e-184;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGTTGGCTGCTCTTTTCTGTGACTGCAATTCATGTAATCTGTCAACCAAGT 60
DB 32 ATGTTGGCTGCTCTTTTCTGTGACTGCAATTCATGTAATCTGTCAACCAAGT 91
QY 61 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAAGACAGCTCTGGAGATTAAGCATAT 120
DB 92 GCAGAAATGCTTTTAAAGTGAAGTCTAGTATCAAGACAGCTCTGGAGATTAAGCATAT 151
QY 121 GCCTGGATACCAATGAAGTAACTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 180
DB 152 GCCTGGATACCAATGAAGTAACTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 211
QY 181 GTTCCCAAGAGAGCAAGAAATTTCCATGCTTCTTCAATGTAAACCCAGAG 240

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Db 212 GTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCCTTACTTGGCAATGTAACCCAGAGG 271
QY 241 GTATCATCTGCTTGTGTGTACAGACCCCTTCAAAAATCACACCCTTCTGTGTAG 300
Db 272 GTATCATCTGCTTGTGTGTGTACAGACCCCTTCAAAAATCACACCCTTCTGTGTAG 331
QY 301 GTGCAATCAGCCATAAGATGAACAAGACCGGATCAACAATGCTCTTCTTAATGAC 360
Db 332 GTGCAATCAGCCATAAGATGAACAAGACCGGATCAACAATGCTCTTCTTAATGAC 391
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACACCCATGGAACCATCTGTG 420
Db 392 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACACCCATGGAACCATCTGTG 451
QY 421 CCCATCTGATTAATTAATTTGGTGTGATATTTTGCATCATATGTTGCAATTGCACTA 480
Db 452 CCCATCTGATTAATTAATTTGGTGTGATATTTTGCATCATATGTTGCAATTGCACTA 511
QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAACAAGAACCATCTGAAGTGAT 540
Db 512 CTGATTTTATCAGGATCTGGCAACGTADABAAABAACAAGAACCATCTGAAGTGAT 571
QY 541 GACGCTGAAGATAGTGTGAAAACATGATCACAATTTGAAATGGCATCCCTCTGATCCC 600
Db 572 GACGCTGAARATATAGTGTGAAAACATGATCACAATTTGAAATGGCATCCCTCTGATCCC 631
QY 601 CTGGAATGAAGGG-GGGCATATTAATGATGCTTCATG 638
Db 632 CTGGAATGAAGGGGAGGAGGATATTAATGATGCTTCATG 670
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RESULT 4

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US-09-621-976-5
; Sequence 5, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; NUMBER OF SEQ ID NOS: 2000-07-21
; SOFTWARE: Patent.pm
; SEQ ID NO 5
; LENGTH: 848
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 32..697
; NAME/KEY: sig_peptide
; LOCATION: 32..73
; OTHER INFORMATION: Von Heijne matrix
US-09-621-976-5
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Query Match 98.0%; Score 625; DB 4; Length 848;
Best Local Similarity 99.2%; Pred. No. 1.2e-184;
Matches 634; Conservative 4; Mismatches 0; Indels 1; Gaps 1;
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QY 1 ATGTTGTGCTGCTCTTTTCTGTGTAAGTCCATTCATGCTGAATCTGTCAACAGGT 60
Db 32 ATGTTGTGCTGCTCTTTTCTGTGTAAGTCCATTCATGCTGAATCTGTCAACAGGT 91
QY 61 GCAGAAAATGCTTTTAAAGTGAAGTATAGTATCAGAACAGCTCTGGAGATAAAGCATAT 120
Db 92 GCAGAAAATGCTTTTAAAGTGAAGTATAGTATCAGAACAGCTCTGGAGATAAAGCATAT 151
QY 121 GCCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGTAGCTTTCTCCATGAGAAA 180
Db 152 GCCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGTAGCTTTCTCCATGAGAAA 211
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QY 181 GTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCCTTACTTGGCAATGTAACCCAGAGG 240
Db 212 GTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCCTTACTTGGCAATGTAACCCAGAGG 271
QY 241 GTATCATCTGCTTGTGTGTGTACAGACCCCTTCAAAAATCACACCCTTCTGTGTAG 300
Db 272 GTATCATCTGCTTGTGTGTGTGTACAGACCCCTTCAAAAATCACACCCTTCTGTGTAG 331
QY 301 GTGCAATCAGCCATAAGATGAACAAGACCGGATCAACAATGCTCTTCTTAATGAC 360
Db 332 GTGCAATCAGCCATAAGATGAACAAGACCGGATCAACAATGCTCTTCTTAATGAC 391
QY 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACACCCATGGAACCATCTGTG 420
Db 392 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACACCCATGGAACCATCTGTG 451
QY 421 CCCATCTGATTAATTAATTTGGTGTGATATTTTGCATCATATGTTGCAATTGCACTA 480
Db 452 CCCATCTGATTAATTAATTTGGTGTGATATTTTGCATCATATGTTGCAATTGCACTA 511
QY 481 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAACAAGAACCATCTGAAGTGAT 540
Db 512 CTGATTTTATCAGGATCTGGCAACGTADABAAABAACAAGAACCATCTGAAGTGAT 571
QY 541 GACGCTGAAGATAGTGTGAAAACATGATCACAATTTGAAATGGCATCCCTCTGATCCC 600
Db 572 GACGCTGAARATATAGTGTGAAAACATGATCACAATTTGAAATGGCATCCCTCTGATCCC 631
QY 601 CTGGAATGAAGGG-GGGCATATTAATGATGCTTCATG 638
Db 632 CTGGAATGAAGGGGAGGAGGATATTAATGATGCTTCATG 670
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